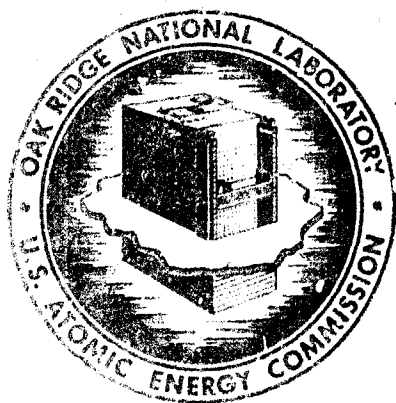
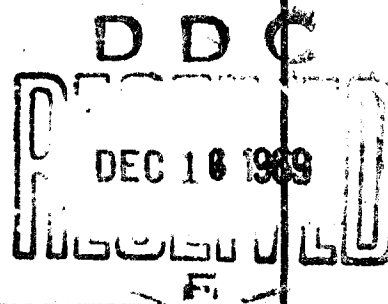


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NEUTRON AND SECONDARY GAMMA-RAY  
TRANSPORT IN INFINITE HOMOGENEOUS AIR

E. A. Straker  
M. L. Gritzner



**OAK RIDGE NATIONAL LABORATORY**  
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Neutron Physics Division

NEUTRON AND SECONDARY GAMMA-RAY TRANSPORT  
IN INFINITE HOMOGENEOUS AIR

E. A. Straker and M. L. Gritzner\*

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DECEMBER 1969

OAK RIDGE NATIONAL LABORATORY  
Oak Ridge, Tennessee  
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Abstract

The detailed energy, angular, and spatial distribution of neutrons and their secondary gamma rays is given for nine source energy groups, a fission spectrum, and a typical thermonuclear spectrum. Results for ranges to 2000 meters for the eleven sources are supplemented with results to 5000 meters for a fission and 12.2- to 15-MeV source. In addition to the detailed description of the radiation field, the angular distributions of Henderson dose, Snyder-Neufeld dose, tissue kerma, mid-phantom dose, concrete kerma, air kerma, ionizing silicon kerma, and non-ionizing silicon kerma are given for neutrons, and the Henderson dose, concrete kerma, air kerma, and silicon kerma are given for secondary gamma rays. Some comparisons with air-over-ground results are made.



The detailed radiation field from weapons detonated in the atmosphere is required as the source term for many shielding calculations. For low altitude detonations, less than approximately 20,000 ft, and for source and detector altitudes greater than approximately 2,000 ft, the radiation field may be determined from results of transport in an infinite homogeneous medium. In addition, infinite air results provide the upper limit for the effect of the ground on the radiation field. In order to provide infinite air data for comparison with those previously published<sup>1</sup> for a source height of 50 ft above an air-ground interface, tabular results are presented of discrete ordinates calculations of the energy, angular and spatial distribution of neutrons and their secondary gamma rays due to point isotropic sources in an infinite medium of air. The same cross sections, air density and method of calculation were used as in reference 1.

The neutron sources for this problem were isotropic and uniformly distributed over each energy group; the groups considered are shown in Table 1. In addition to these band spectra, results are also given for a typical thermonuclear source (see Fig. 1 and Table 2) and for a fission source. The air composition was assumed to be 21% oxygen and 79% nitrogen at a density of 1.11 mg/cc. The discrete ordinates code ANISN<sup>2</sup> was used to determine the neutron and gamma-ray distribution in a 2,000-meter sphere; in two cases results for a 5,000-meter sphere are presented. The neutron cross sections were taken from ENDF/B,<sup>3</sup> and the secondary gamma-ray production cross sections were from various sources.<sup>4</sup> Twenty-two neutron groups and 18 gamma-ray groups were used to represent the cross sections in the  $S_{16}P_5$  calculations.

TABLE 1. SOURCE ENERGY BANDS

Energy Range (MeV)	
12.2	- 15.0
10.0	- 12.2
8.18	- 10.0
6.36	- 8.18
4.06	- 6.36
2.35	- 4.06
1.108	- 2.35
0.111	- 1.108
1/E, 0.0033	- 0.111

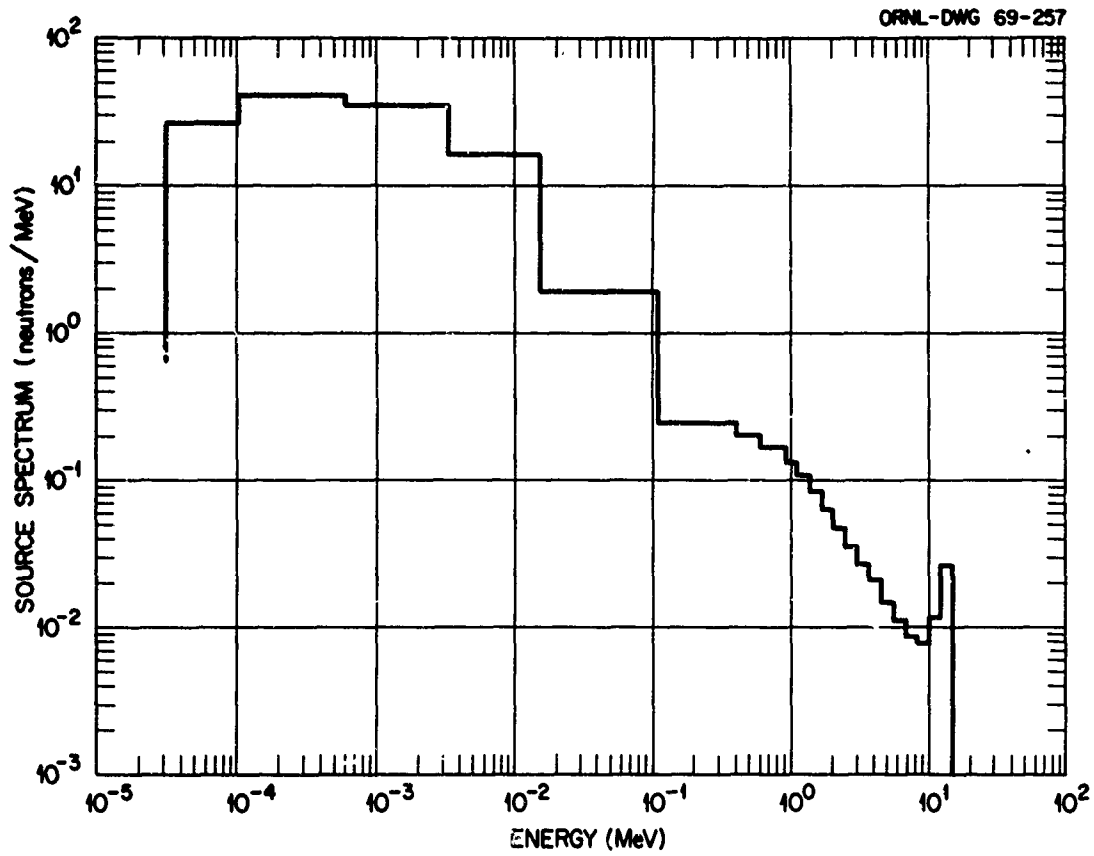


Fig. 1. Source Energy Spectrum for a Typical Thermonuclear Weapon.

TABLE 2. ENERGY DISTRIBUTIONS FOR FISSION  
AND THERMONUCLEAR SOURCES

Energy (MeV)	Fraction in Group	
	Fission	Thermonuclear
12.2 - 15.0	1.568(-4) <sup>a</sup>	7.06(-2)
10.0 - 12.2	8.932(-4)	2.56(-2)
8.19 - 10.0	3.480(-3)	1.41(-2)
6.36 - 8.19	1.392(-2)	1.47(-2)
4.97 - 6.36	3.457(-2)	1.80(-2)
4.07 - 4.97	3.507(-2)	1.70(-2)
3.01 - 4.07	1.072(-1)	2.60(-2)
2.46 - 3.01	8.898(-2)	1.90(-2)
2.35 - 2.46	2.323(-2)	5.00(-3)
1.83 - 2.35	1.203(-1)	2.80(-2)
1.11 - 1.83	2.181(-1)	6.20(-2)
0.55 - 1.11	1.983(-1)	8.50(-2)
0.11 - 0.55	1.403(-1)	1.02(-1)
0.0335 - 0.110	1.550(-2)	3.65(-1)
5.83(-4)-3.35(-2)	0	1.22(-1)
1.01(-4)-5.83(-4)	0	2.40(-2)
2.90(-5)-1.01(-4)	0	2.00(-3)
<2.90(-5)	0	0

<sup>a</sup>Read as  $1.568 \times 10^{-4}$ .

Results for the energy-angular distribution of both neutrons and their secondary gamma rays from inelastic neutron scattering, fast neutron capture, and thermal neutron capture are given for the ranges listed in Table 3. In addition, the angular fluence is integrated to give the scalar fluence at each range.

Several neutron and gamma-ray responses have been used to weight the energy fluence to provide angular-dependent response information. Specifically, the neutron responses were the Henderson dose,<sup>5</sup> the Snyder-Neufeld dose,<sup>6</sup> tissue kerma,<sup>7</sup> the mid-phantom dose,<sup>8</sup> concrete kerma,<sup>7</sup> air kerma,<sup>7</sup> and both ionizing and non-ionizing silicon kerma.<sup>9</sup> The specific response functions are given in Table 4. The gamma-ray responses were Henderson dose,<sup>5</sup> concrete kerma,<sup>10</sup> air kerma,<sup>10</sup> and silicon kerma<sup>10</sup> (see Table 5). To illustrate the variation of the various responses with range, Fig. 2 shows the results for a 12.2- to 15-MeV source. The type of response has little effect on the shape of the curve for ranges greater than ~800 meters.

When the angular fluence varies with angle by a factor of approximately 500 or more, the angular fluence may be negative in the backward angles due to the truncation of the Legendre expansion of the scattering cross section at  $P_5$ . These negative fluences are small and do not significantly affect the scalar fluence; however, if a negative value occurs for a direction which is important to the solution of a particular problem, then these results are probably inadequate.

An index to the tabulated results is given in Table 6. To illustrate some of the results, Fig. 3 shows the spatial distribution of  $4\pi R^2$  neutron and gamma-ray doses due to both a 12.2- to 15-MeV source and a fission source. Note that for ranges greater than about 2,000 meters the secondary gamma-ray dose dominates.

TABLE 3. RANGE IN METERS FOR  
WHICH RESULTS ARE TABULATED

All Source Energies		Fission and 12.2- to 15-MeV Sources
75	600	2400
150	900	3600
200	1200	
300		4800
400	1500	
500	1800	

TABLE 4. NEUTRON RESPONSE FUNCTIONS

Group	Upper Energy (eV)	Henderson Tissue Dose <sup>a</sup>	Snyder-Neufeld Dose <sup>b</sup>	Tissue Kermac <sup>†</sup>	Mid-Phantom Dosed <sup>*</sup>	Concrete Kermac <sup>†</sup>	Air Kermac <sup>†</sup>	Non-Ionizing Silicon Kermac <sup>†</sup>		Ionizing Silicon Kermac <sup>†</sup>
1	15.0 (+6)	5.46(-9)	7.0 (-9)	6.36(-7)	4.9 (-9)	1.58(-7)	2.66(-7)	7.5 (-9)	8.6 (-8)	8.6 (-8)
2	12.2 (+6)	5.13(-9)	7.0 (-9)	5.74(-7)	4.5 (-9)	1.17(-7)	1.93(-7)	6.6 (-9)	9.0 (-8)	9.0 (-8)
3	10.0 (+6)	4.84(-9)	7.08(-9)	5.17(-7)	4.2 (-9)	8.2 (-8)	1.41(-7)	6.4 (-9)	8.1 (-8)	8.1 (-8)
4	8.18(+6)	4.61(-9)	6.72(-9)	4.87(-7)	3.5 (-9)	7.05(-8)	1.11(-7)	6.6 (-9)	5.0 (-8)	5.0 (-8)
5	6.36(+6)	4.44(-9)	6.03(-9)	4.5 (-7)	2.8 (-9)	5.75(-8)	1.05(-7)	5.5 (-9)	1.6 (-8)	1.6 (-8)
6	4.96(+6)	4.13(-9)	5.43(-9)	4.21(-7)	2.3 (-9)	5.4 (-8)	1.20(-7)	5.1 (-9)	9.0 (-9)	9.0 (-9)
7	4.06(+6)	4.01(-9)	4.83(-9)	3.98(-7)	1.75(-9)	5.8 (-8)	1.06(-7)	4.8 (-9)	5.4 (-9)	5.4 (-9)
8	3.01(+6)	3.39(-9)	4.48(-9)	3.43(-7)	1.25(-9)	4.1 (-8)	5.38(-8)	4.8 (-9)	3.6 (-9)	3.6 (-9)
9	2.46(+6)	3.15(-9)	4.33(-9)	3.15(-7)	1.15(-9)	3.2 (-8)	3.09(-8)	4.7 (-9)	3.0 (-9)	3.0 (-9)
10	2.35(+6)	3.09(-9)	4.23(-9)	3.05(-7)	7.00(-10)	3.5 (-8)	3.37(-8)	4.2 (-9)	2.7 (-9)	2.7 (-9)
11	1.83(+6)	2.64(-9)	3.96(-9)	2.63(-7)	5.30(-10)	3.12(-8)	2.95(-8)	3.4 (-9)	2.1 (-9)	2.1 (-9)
12	1.11(+6)	1.97(-9)	3.30(-9)	2.05(-7)	2.8 (-10)	2.61(-8)	1.61(-8)	3.1 (-9)	1.7 (-9)	1.7 (-9)
13	5.50(+5)	1.12(-9)	1.73(-9)	1.27(-7)	2.0 (-10)	1.48(-8)	9.84(-9)	2.0 (-9)	1.4 (-9)	1.4 (-9)
14	1.11(+5)	2.29(-10)	7.0 (-10)	4.0 (-8)	1.2 (-10)	3.55(-9)	2.67(-9)	0	0	0
15	3.35(+3)	0	6.07(-10)	1.96(-9)	1.05(-10)	1.58(-10)	3.61(-10)	0	0	0
16	5.83(+2)	0	6.72(-10)	3.67(-10)	1.10(-10)	2.85(-11)	5.62(-10)	0	0	0
17	1.01(+2)	0	5.35(-10)	1.17(-10)	1.15(-10)	7.1 (-12)	1.28(-9)	0	0	0
18	2.90(+1)	0	3.88(-10)	1.11(-10)	1.10(-10)	5.0 (-12)	2.26(-9)	0	0	0
19	1.07(+1)	0	3.42(-10)	1.62(-10)	1.0 (-10)	6.35(-12)	3.70(-9)	0	0	0
20	3.06(+0)	0	3.27(-10)	2.65(-10)	8.5 (-11)	1.02(-11)	6.71(-9)	0	0	0
21	1.12(+0)	0	3.22(-10)	4.26(-10)	7.9 (-11)	1.63(-11)	1.13(-8)	0	0	0
22	0.414(+0)	0	3.2 (-10)	9.36(-10)	5.5 (-11)	3.62(-11)	2.43(-8)	0	0	0

<sup>\*</sup> Units of rad/(n/cm<sup>2</sup>)

<sup>†</sup> Units of (ergs/gm)/(n/cm<sup>2</sup>)

<sup>a</sup> From reference 5.

<sup>b</sup> From reference 6.

<sup>c</sup> From reference 7.

<sup>d</sup> From reference 8.

<sup>e</sup> From reference 9.

TABLE 5. GAMMA-RAY RESPONSE FUNCTIONS

Group	Upper Energy (MeV)	Henderson Tissue Dose <sup>a*</sup>	Concrete Kerma <sup>b†</sup>	Air Kerma <sup>b†</sup>	Silicon Kerma <sup>b†</sup>
1	10.0	2.42(-9)	2.65(-7)	2.24(-7)	2.80(-7)
2	8.0	2.07(-9)	2.18(-7)	1.90(-7)	2.28(-7)
3	6.5	1.76(-9)	1.80(-7)	1.60(-7)	1.83(-7)
4	5.0	1.59(-9)	1.46(-7)	1.34(-7)	1.48(-7)
5	4.0	1.27(-9)	1.18(-7)	1.12(-7)	1.20(-7)
6	3.0	1.08(-9)	9.80(-8)	9.52(-8)	9.85(-8)
7	2.5	8.75(-10)	8.40(-8)	8.30(-8)	8.40(-8)
8	2.0	7.35(-10)	7.15(-8)	2.13(-8)	7.12(-8)
9	1.66	6.44(-10)	6.15(-8)	6.15(-8)	6.10(-8)
10	1.33	5.30(-10)	5.05(-8)	5.05(-8)	5.05(-8)
11	1.0	4.45(-10)	4.10(-8)	4.10(-8)	4.10(-8)
12	0.8	3.50(-10)	3.30(-8)	3.26(-8)	2.70(-8)
13	0.6	2.56(-10)	2.42(-8)	2.38(-8)	2.37(-8)
14	0.4	1.77(-10)	1.68(-8)	1.63(-8)	1.65(-8)
15	0.3	1.22(-10)	1.20(-8)	1.11(-8)	1.17(-8)
16	0.2	6.60(-11)	8.00(-9)	5.92(-9)	7.25(-9)
17	0.1	3.90(-11)	1.20(-8)	2.72(-9)	9.75(-9)
18	0.05	8.37(-11)	5.90(-8)	4.40(-9)	4.13(-8)

<sup>a</sup>From reference 5.<sup>b</sup>From reference 10.<sup>\*</sup>Units of Rad/( $\gamma/\text{cm}^2$ )<sup>†</sup>Units of (ergs/gm)/( $\gamma/\text{cm}^2$ )



(12.2-15.0 MEV)

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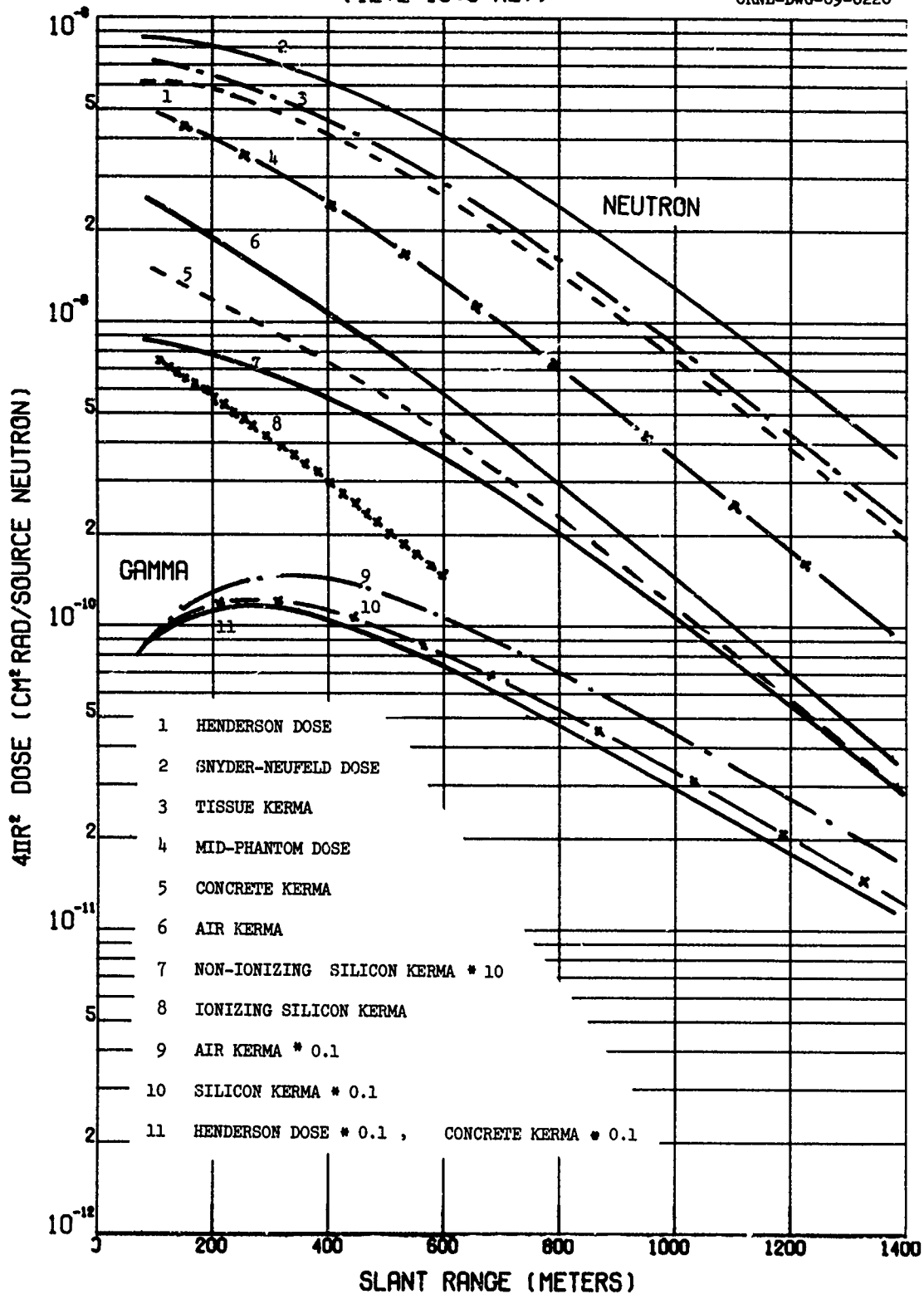


Fig. 2.  $4\pi R^2$  Dose Versus Range Due to a 12.2- to 15-MeV Source.

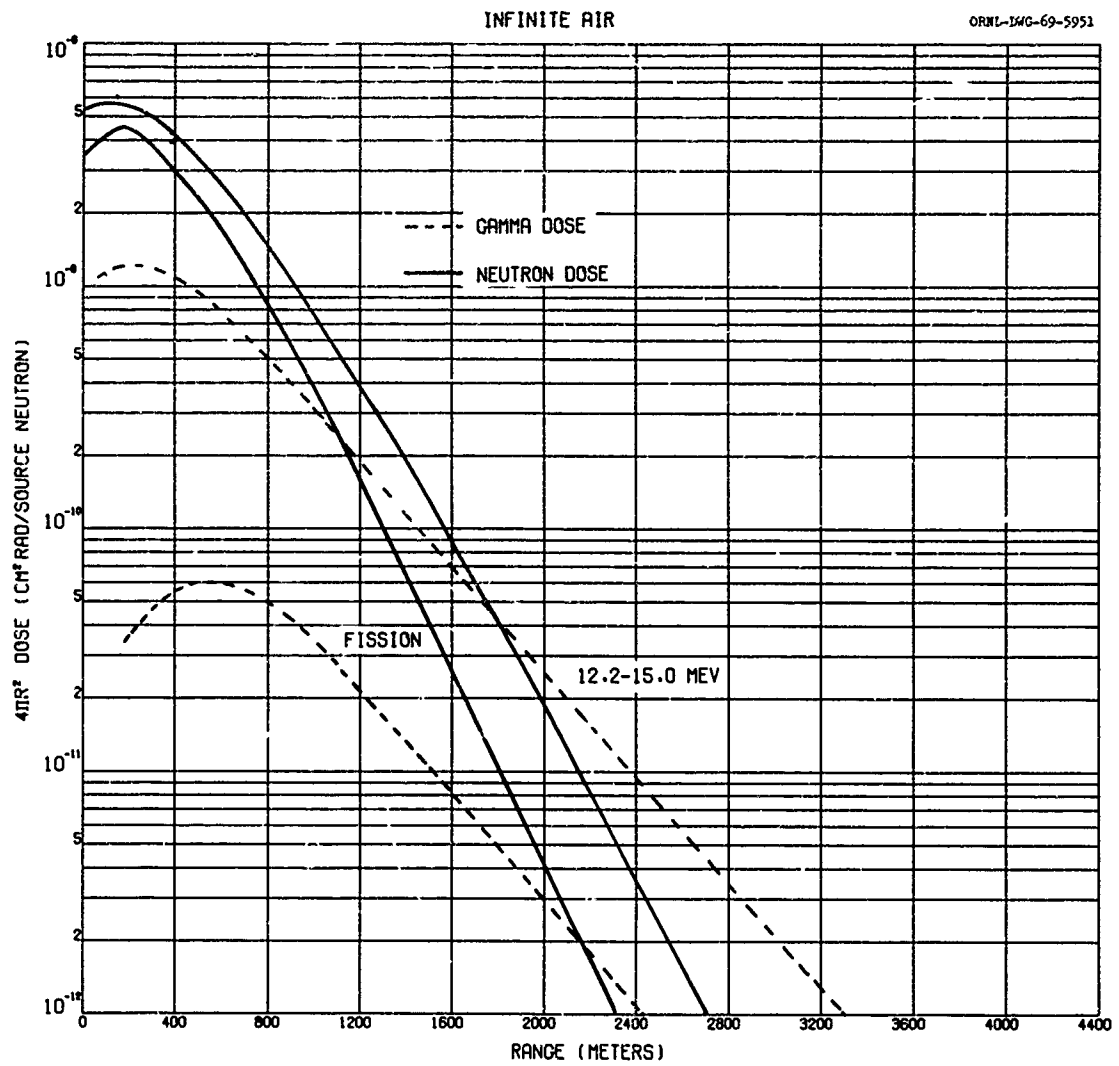


Fig. 3.  $4\pi R^2$  Dose Versus Range for both 12.2- to 15-MeV and Fission Sources.

To compare these infinite air results with the results for a source height of 50 ft, a rotation of the coordinates of the air-over-ground results must be made. Figs. 4 and 5 show the comparison of infinite air results at 900 meters with those for source heights of 50 and 1125 ft and detector height of 3 ft. The angular variable is measured from the source-detector axis. At this range, the effect of the ground is to make the dose entering the ground slightly more peaked for both neutrons and secondary gamma rays.

These tabulated results provide the detailed energy angular distribution of both neutrons and secondary gamma rays in infinite air. The validity of the calculational technique and the input cross sections for the air-over-ground results has been established previously<sup>4</sup> by comparing calculations with experimental results from BREN<sup>11</sup> and HENRE.<sup>12</sup> These calculations for infinite air utilized the same cross sections and the accuracy of the results should be essentially the same as for the air-over-ground results.

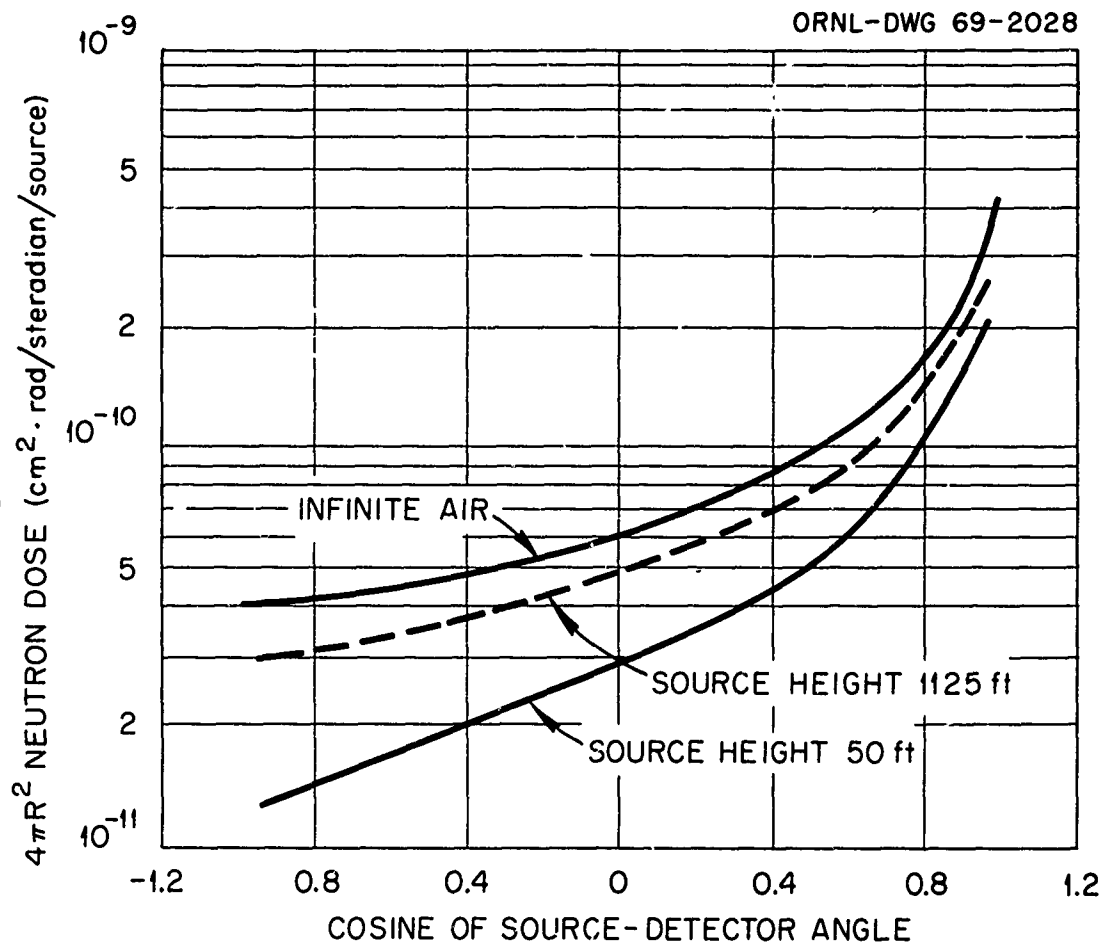


Fig. 4. Angular Distribution of Neutron Dose at a Range of 900 Meters Due to a 12.2- to 15-MeV Source. For the air-over-ground case, the detector is 3 ft above the ground.

12.2-15.0 MEV

ORNL-DWG-69-5952

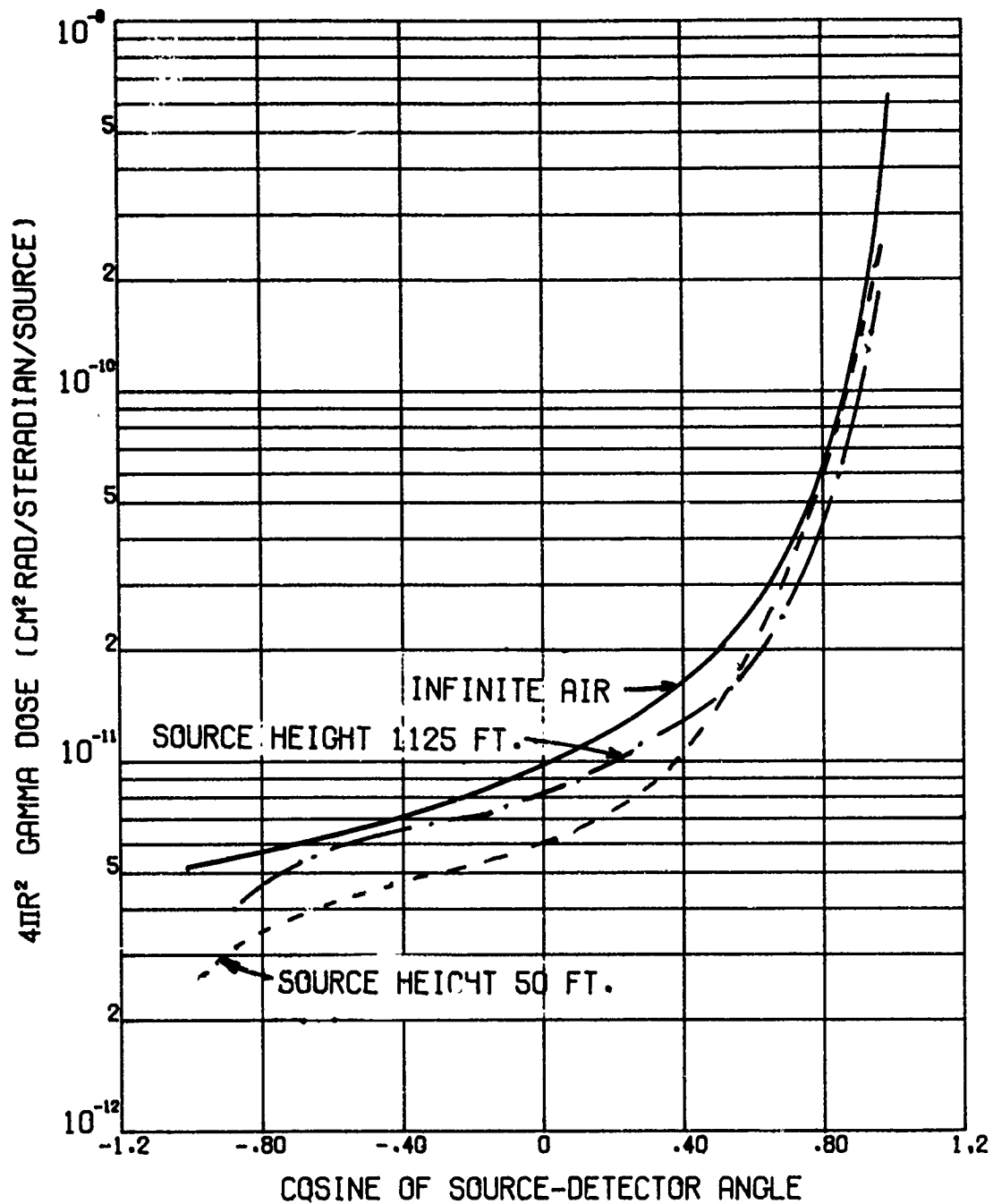


Fig. 5. Angular Distribution of Gamma-Ray Dose at a Range of 900 Meters Due to 12.2- to 15-MeV Source. For the air-over-ground case, the detector is 3 ft above the ground.

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TABULATED DATA



TABLE 6. PAGE INDEX TO TABULATED DATA

Type of Radiation	Data Tabulated	Range (Meters)	12.2-15 MeV	10.0-12.2 MeV	8.18-10.0 MeV	6.36-8.18 MeV	4.06-6.36 MeV	2.35-4.06 MeV	1.108-2.35 MeV	.111-1.108 MeV	.0033-.111 MeV	Fission	Thermo-nuclear
Neutrons	Energy-angular distributions	75	1	35	69	103	137	171	205	239	273	307	341
		150	2	36	70	104	138	172	206	240	274	308	342
		200	3	37	71	105	139	173	207	241	275	309	343
		300	4	38	72	106	140	174	208	242	276	310	344
		400	5	39	73	107	141	175	209	243	277	311	345
		500	6	40	74	108	142	176	210	244	278	312	346
		600	7	41	75	109	143	177	211	245	279	313	347
		900	8	42	76	110	144	178	212	246	280	314	348
		1200	9	43	77	111	145	179	213	247	281	315	349
		1500	10	44	78	112	146	180	214	248	282	316	350
		1800	11	45	79	113	147	181	215	249	283	317	351
Gammas	Energy-angular distributions	75	12	46	80	114	148	182	216	250	284	318	352
		150	13	47	81	115	149	183	217	251	285	319	353
		200	14	48	82	116	150	184	218	252	286	320	354
		300	15	49	83	117	151	185	219	253	287	321	355
		400	16	50	84	118	152	186	220	254	288	322	356
		500	17	51	85	119	153	187	221	255	289	323	357
		600	18	52	86	120	154	188	222	256	290	324	358
		900	19	53	87	121	155	189	223	257	291	325	359
		1200	20	54	88	122	156	190	224	258	292	326	360
		1500	21	55	89	123	157	191	225	259	293	327	361
		1800	22	56	90	124	158	192	226	260	294	328	362
Neutrons	Henderson dose	75-1800	23	57	91	125	159	193	227	261	295	329	363
		1800-4800	381									399	
		Snyder-Neufeld dose	24	58	92	126	160	194	228	262	296	330	364
		1800-4800	382									400	
		Tissue kerma	25	59	93	127	161	195	229	263	297	331	365
		1800-4800	383									401	
		Mid-phantom dose	26	60	94	128	162	196	230	264	298	332	366
		1800-4800	384									402	
		Concrete kerma	27	61	95	129	163	197	231	265	299	333	367
		1800-4800	385									403	
		Air kerma	28	62	96	130	164	198	232	266	300	334	368
Neutrons	Ionizing silicon kerma	75-1800	29	63	97	131	165	199	233	267	301	335	369
		1800-4800	387									405	
		Non-ionizing silicon kerma	30	64	98	132	166	200	234	268	302	336	370
		1800-4800	388									406	

TABLE 6. (CONT.)

Gammas	Henderson dose	75-1800 1800-4800	31 389	65	99	133	167	201	235	269	303	337 407	371
	Concrete kerma	75-1800 1800-4800	32 390	66	100	134	168	202	236	270	304	338 408	372
	Air kerma	75-1800 1800-4800	33 391	67	101	135	169	203	237	271	305	339 409	373
Neutrons	Silicon kerma	75-1800 1800-4800	34 392	68	102	136	170	204	238	272	306	340 410	374
	Energy-angular distributions	2400 3600 4800	375 376 377									393 394 395	
	Energy-angular distributions	2400 3600 4800	378 379 380									396 397 398	

4 PI R\*\*2 FLUENCE AT 75.0 METERS

12.20 TO 15.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01	MU=1.0000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
1.00E 01	-6.573E-04	-5.322E-04	-2.160E-04	1.440E-04	1.833E-04	1.833E-04	3.126E-05	7.541E-05	2.937E-04
1.00E 01	2.253E-03	2.205E-03	2.037E-03	1.795E-03	1.607E-03	1.559E-03	1.683E-03	1.949E-03	2.293E-03
8.19E 00	9.432E-04	9.366E-04	9.136E-04	8.793E-04	8.509E-04	8.300E-04	8.669E-04	9.270E-04	1.027E-03
6.36E 00	7.545E-04	7.567E-04	7.658E-04	7.853E-04	8.178E-04	8.674E-04	9.393E-04	1.039E-03	1.175E-03
4.97E 00	1.106E-03	1.110E-03	1.125E-03	1.158E-03	1.211E-03	1.291E-03	1.403E-03	1.552E-03	1.751E-03
4.07E 00	1.631E-03	1.637E-03	1.663E-03	1.712E-03	1.787E-03	1.890E-02	2.027E-03	2.208E-03	2.448E-03
3.01E 00	1.911E-03	1.916E-03	1.936E-03	1.978E-03	2.043E-03	2.136E-03	2.263E-03	2.440E-03	2.678E-03
2.46E 00	3.081E-03	3.085E-03	3.104E-03	3.143E-03	3.207E-03	3.305E-03	3.448E-03	3.655E-03	3.948E-03
2.35E 00	3.734E-03	3.739E-03	3.759E-03	3.802E-03	3.878E-03	3.998E-03	4.180E-03	4.433E-03	4.817E-03
1.83E 00	3.026E-03	3.033E-03	3.062E-03	3.120E-03	3.213E-03	3.348E-03	3.537E-03	3.793E-03	4.135E-03
1.11E 00	3.291E-03	3.300E-03	3.34E-03	3.401E-03	3.504E-03	3.648E-03	3.840E-03	4.091E-03	4.417E-03
5.50E-01	4.510E-03	4.519E-03	4.54E-03	4.622E-03	4.726E-03	4.870E-03	5.060E-03	5.306E-03	5.620E-03
1.11E-01	5.660E-03	5.668E-03	5.700E-03	5.762E-03	5.854E-03	5.976E-03	6.131E-03	6.322E-03	6.553E-03
3.35E-02	2.751E-02	2.752E-02	2.759E-02	2.772E-02	2.791E-02	2.816E-02	2.846E-02	2.881E-02	2.920E-02
5.83E-04	2.162E-02	2.163E-02	2.166E-02	2.173E-02	2.182E-02	2.194E-02	2.208E-02	2.224E-02	2.242E-02
1.01E-04	1.219E 00	1.219E 00	1.221E 00	1.224E 00	1.228E 00	1.233E 00	1.238E 00	1.245E 00	1.252E 00
2.90E-05	5.072E 00	5.072E 00	5.077E 00	5.087E 00	5.101E 00	5.118E 00	5.139E 00	5.162E 00	5.187E 00
1.07E-05	1.442E 01	1.442E 01	1.443E 01	1.446E 01	1.450E 01	1.454E 01	1.459E 01	1.465E 01	1.472E 01
3.06E-06	3.757E 01	3.758E 01	3.761E 01	3.767E 01	3.776E 01	3.786E 01	3.799E 01	3.813E 01	3.827E 01
1.12E-06	9.648E 01	9.870E 01	9.878E 01	9.892E 01	9.913E 01	9.939E 01	9.969E 01	1.000E 02	1.004E 02
4.14E-07	2.125E 02	2.124E 02	2.125E 02	2.128E 02	2.132E 02	2.137E 02	2.143E 02	2.150E 02	2.157E 02
0.0	3.031E 02	3.032E 02	3.034E 02	3.039E 02	3.045E 02	3.051E 02	3.059E 02	3.067E 02	3.076E 02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	2.814E-01
1.00E 01	1.332E-03	1.490E-03	2.159E-03	3.779E-03	1.160E-02	2.004E-02	7.611E-02	1.295E 00	2.814E-01
1.00E 01	4.322E-03	3.308E-03	4.102E-03	3.859E-03	5.085E-03	9.164E-03	1.464E-02	4.058E-02	5.077E-02
8.19E 00	1.718E-03	1.463E-03	1.614E-03	2.002E-03	3.084E-03	3.836E-03	6.010E-03	1.618E-02	2.285E-02
6.36E 00	1.320E-03	1.697E-03	1.97E-03	2.264E-03	3.663E-03	5.197E-03	8.019E-03	2.031E-02	2.628E-02
4.97E 00	1.962E-03	2.490E-03	3.415E-03	4.394E-03	4.210E-03	6.300E-03	1.183E-02	2.743E-02	3.816E-02
4.07E 00	3.885E-03	2.986E-03	3.847E-03	4.796E-03	5.915E-03	9.276E-03	1.396E-02	3.172E-02	5.042E-02
3.01E 00	4.193E-03	3.220E-03	4.127E-03	5.120E-03	6.260E-03	9.683E-03	1.424E-02	3.131E-02	5.375E-02
2.46E 00	4.482E-03	4.767E-03	6.200E-03	6.460E-03	8.908E-03	1.283E-02	1.718E-02	3.971E-02	7.347E-02
2.35E 00	5.448E-03	6.255E-03	8.021E-03	7.695E-03	1.035E-02	1.315E-02	2.029E-02	4.510E-02	8.867E-02
1.83E 00	4.700E-03	5.030E-03	6.479E-03	6.684E-03	8.928E-03	1.245E-02	1.615E-02	3.581E-02	7.367E-02
1.11E 00	4.919E-03	5.144E-03	6.803E-03	6.519E-03	8.285E-03	1.147E-02	1.429E-02	2.877E-02	7.349E-02
5.50E-01	5.862E-03	6.362E-03	7.675E-03	7.754E-03	9.158E-03	1.156E-02	1.379E-02	2.417E-02	8.508E-02
1.11E-01	6.79E-03	7.086E-03	7.784E-03	7.921E-03	8.612E-03	9.721E-03	1.057E-02	1.427E-02	8.943E-02
3.35E-02	2.963E-02	3.011E-02	3.070E-02	3.115E-02	3.172E-02	3.237E-02	3.287E-02	3.381E-02	3.730E-01
5.83E-04	2.260E-02	2.280E-02	2.300E-02	2.319E-02	2.336E-02	2.351E-02	2.365E-02	2.372E-02	2.835E-01
1.01E-04	1.260E 00	1.268E 00	1.275E 00	1.282E 00	1.288E 00	1.293E 00	1.297E 00	1.299E 00	1.580E 01
2.90E-05	5.213E 00	5.239E 00	5.244E 00	5.247E 00	5.307E 00	5.323E 00	5.336E 00	5.341E 00	6.537E 01
1.07E-05	1.478E 01	1.485E 01	1.491E 01	1.497E 01	1.502E 01	1.506E 01	1.509E 01	1.510E 01	1.854E 02
3.06E-06	3.843E 01	3.858E 01	3.872E 01	3.885E 01	3.897E 01	3.906E 01	3.912E 01	3.916E 01	4.820E 02
1.12E-06	1.007E 02	1.011E 02	1.015E 02	1.018E 02	1.020E 02	1.023E 02	1.024E 02	1.025E 02	1.264E 03
4.14E-07	2.164E 02	2.172E 02	2.179E 02	2.185E 02	2.190E 02	2.195E 02	2.198E 02	2.200E 02	2.716E 03
0.0	3.084E 02	3.093E 02	3.102E 02	3.110E 02	3.117E 02	3.122E 02	3.125E 02	3.127E 02	3.871E 03

4 PI R\*2 FLUENCE AT 150.0 METERS

12.20 TO 15.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01	0.9894	0.9894	0.9894	0.9894	0.9894	0.9894	0.9894	0.9894	0.9894
1.00E 01	1.50E 01	1.50E 01	1.50E 01	1.50E 01	1.50E 01	1.50E 01	1.50E 01	1.50E 01	1.50E 01
1.00E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
8.19E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
6.36E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
4.97E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
4.07E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
3.01E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
2.46E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
2.35E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
1.83E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
1.11E 00	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
5.50E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
1.11E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
3.35E 02	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
5.83E 04	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
1.01E 04	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
2.90E 05	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
1.07E 05	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
3.06E 06	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
1.12E 06	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
4.14E 07	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01
0.0	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01	1.00E 01

12.20 TO 15.00 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	1.136E-04	1.136E-04	1.291E-04	3.126E-05	3.126E-05	2.186E-04	5.572E-05	1.222E-04	4.026E-04
1.50E 01--1.22E 01	1.876E-03	1.835E-03	1.689E-03	1.487E-03	1.348E-03	1.349E-03	1.517E-03	1.819E-03	2.185E-03
1.22E 01--1.00E 01	1.020E-03	1.014E-03	9.910E-04	9.604E-04	9.300E-04	9.574E-04	1.018E-03	1.133E-03	1.303E-03
1.00E 01--8.19E 00	9.825E-04	9.846E-04	9.944E-04	1.018E-03	1.061E-03	1.133E-03	1.244E-03	1.402E-03	1.617E-03
8.19E 00--6.36E 00	1.572E-03	1.576E-03	1.594E-03	1.643E-03	1.726E-03	1.857E-03	2.045E-03	2.296E-03	2.622E-03
6.36E 00--4.97E 00	2.597E-03	2.608E-03	2.652E-03	2.738E-03	2.864E-03	3.035E-03	3.261E-03	3.559E-03	3.955E-03
4.97E 00--4.07E 00	3.175E-03	3.175E-03	3.202E-03	3.259E-03	3.349E-03	3.483E-03	3.674E-03	3.942E-03	4.318E-03
4.07E 00--3.01E 00	5.531E-03	5.537E-03	5.562E-03	5.617E-03	5.713E-03	5.870E-03	6.117E-03	6.494E-03	7.050E-03
3.01E 00--2.46E 00	7.041E-03	7.050E-03	7.091E-03	7.182E-03	7.347E-03	7.615E-03	8.027E-03	8.632E-03	9.495E-03
2.46E 00--2.35E 00	6.271E-03	6.286E-03	6.351E-03	6.484E-03	6.696E-03	7.008E-03	7.446E-03	8.042E-03	8.835E-03
2.35E 00--1.83E 00	7.856E-03	7.877E-03	7.963E-03	8.139E-03	8.401E-03	8.767E-03	9.254E-03	9.885E-03	1.089E-02
1.83E 00--1.11E 00	1.319E-02	1.322E-02	1.334E-02	1.358E-02	1.394E-02	1.443E-02	1.507E-02	1.589E-02	1.692E-02
1.11E 00--5.50E-01	2.142E-02	2.146E-02	2.160E-02	2.189E-02	2.230E-02	2.284E-02	2.353E-02	2.436E-02	2.534E-02
5.50E-01--1.11E-01	1.319E-01	1.320E-01	1.325E-01	1.334E-01	1.348E-01	1.365E-01	1.386E-01	1.411E-01	1.439E-01
1.11E-01--3.35E-02	1.123E-01	1.124E-01	1.127E-01	1.133E-01	1.141E-01	1.152E-01	1.165E-01	1.179E-01	1.196E-01
3.35E-02--5.83E-04	6.649E 00	6.653E 00	6.669E 00	6.700E 00	6.742E 00	6.797E 00	6.862E 00	6.936E 00	7.018E 00
5.83E-04--1.01E-04	2.840E 01	2.841E 01	2.848E 01	2.860E 01	2.876E 01	2.897E 01	2.922E 01	2.950E 01	2.981E 01
1.01E-04--2.90E-05	8.211E 01	8.215E 01	8.233E 01	8.265E 01	8.310E 01	8.367E 01	8.435E 01	8.512E 01	8.595E 01
2.90E-05--1.07E-05	2.175E 02	2.176E 02	2.181E 02	2.189E 02	2.200E 02	2.214E 02	2.231E 02	2.249E 02	2.270E 02
1.07E-05--3.06E-06	5.777E 02	5.779E 02	5.790E 02	5.810E 02	5.838E 02	5.873E 02	5.915E 02	5.962E 02	6.012E 02
3.06E-06--1.12E-06	1.254E 03	1.255E 03	1.257E 03	1.261E 03	1.267E 03	1.274E 03	1.283E 03	1.292E 03	1.303E 03
1.12E-06--4.14E-07	1.808E 03	1.809E 03	1.812E 03	1.818E 03	1.826E 03	1.835E 03	1.846E 03	1.858E 03	1.871E 03
4.14E-07--0.0									

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	1.153E-03	1.517E-03	2.463E-03	3.260E-03	4.633E-03	1.549E-02	4.819E-02	6.280E-01	1.501E-01
1.50E 01--1.22E 01	2.309E-03	3.135E-03	3.223E-03	4.291E-03	5.847E-03	8.930E-03	1.770E-02	4.899E-02	4.949E-02
1.22E 01--1.00E 01	1.736E-03	1.653E-03	2.414E-03	2.763E-03	4.099E-03	5.920E-03	1.054E-02	2.465E-02	3.091E-02
1.00E 01--8.19E 00	1.757E-03	2.413E-03	2.734E-03	3.750E-03	5.138E-03	7.509E-03	1.341E-02	3.190E-02	3.841E-02
8.19E 00--6.36E 00	3.546E-03	3.173E-03	4.813E-03	5.309E-03	7.927E-03	1.093E-02	1.887E-02	4.179E-02	5.812E-02
6.36E 00--4.97E 00	4.921E-03	4.850E-03	6.624E-03	7.612E-03	1.064E-02	1.455E-02	2.340E-02	4.887E-02	8.081E-02
4.97E 00--4.07E 00	5.312E-03	5.189E-03	7.006E-03	7.977E-03	1.093E-02	1.453E-02	2.230E-02	4.297E-02	8.373E-02
4.07E 00--3.01E 00	6.749E-03	9.982E-03	9.831E-03	1.387E-02	1.621E-02	2.334E-02	3.420E-02	6.824E-02	1.335E-01
3.01E 00--2.46E 00	9.725E-03	1.326E-02	1.398E-02	1.879E-02	2.253E-02	3.142E-02	4.565E-02	8.780E-02	1.795E-01
2.46E 00--2.35E 00	3.855E-03	1.217E-02	1.233E-02	1.632E-02	1.860E-02	2.499E-02	3.386E-02	6.008E-02	1.529E-01
1.83E 00--1.83E 00	1.092E-02	1.369E-02	1.411E-02	1.734E-02	1.936E-02	2.413E-02	3.024E-02	4.557E-02	1.672E-01
1.83E 00--1.11E 00	1.979E-02	1.844E-02	2.286E-02	2.316E-02	2.800E-02	3.061E-02	3.753E-02	4.880E-02	2.485E-01
1.11E 00--5.50E-01	2.729E-02	2.713E-02	2.977E-02	3.043E-02	3.305E-02	3.443E-02	3.716E-02	3.994E-02	3.389E-01
5.50E-01--1.11E-01	1.729E-01	1.500E-01	1.536E-01	1.567E-01	1.601E-01	1.628E-01	1.652E-01	1.667E-01	1.842E 00
1.11E-01--3.35E-02	1.213E-01	1.231E-01	1.249E-01	1.267E-01	1.283E-01	1.298E-01	1.306E-01	1.313E-01	1.519E 00
3.35E-02--5.83E-04	7.104E 00	7.192E 00	7.279E 00	7.362E 00	7.436E 00	7.498E 00	7.544E 00	7.570E 00	8.894E 01
5.83E-04--1.01E-04	3.014E 01	3.047E 01	3.079E 01	3.110E 01	3.137E 01	3.159E 01	3.176E 01	3.185E 01	3.773E 02
1.01E-04--2.90E-05	8.683E 01	8.772E 01	8.859E 01	8.940E 01	9.012E 01	9.071E 01	9.114E 01	9.139E 01	1.087E 03
2.90E-05--1.07E-05	2.291E 02	2.313E 02	2.334E 02	2.353E 02	2.370E 02	2.384E 02	2.395E 02	2.401E 02	2.869E 03
1.07E-05--3.06E-06	6.065E 02	6.119E 02	6.170E 02	6.218E 02	6.261E 02	6.295E 02	6.320E 02	6.335E 02	7.596E 03
3.06E-06--1.12E-06	1.314E 03	1.324E 03	1.335E 03	1.345E 03	1.353E 03	1.360E 03	1.365E 03	1.368E 03	1.645E 04
1.12E-06--4.14E-07	1.884E 03	1.898E 03	1.912E 03	1.925E 03	1.936E 03	1.944E 03	1.949E 03	1.952E 03	2.362E 04
4.14E-07--0.0									

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
GROUP (MEV)									
1.22E 01	MU=0.5894	MU=0.5894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
-3.235E-04	-2.582E-04	-6.739E-05	5.161E-05	5.161E-05	1.919E-04	1.522E-04	6.400E-05	9.368E-05	3.578E-04
1.307E-03	1.280E-03	1.185E-03	1.056E-03	1.056E-03	9.754E-04	8.939E-04	1.132E-03	1.367E-03	1.650E-03
8.819E 00	8.011E-04	7.858E-04	7.667E-04	7.667E-04	9.371E-04	1.008E-04	8.485E-04	9.629E-04	1.128E-03
8.654E-04	8.671E-04	8.754E-04	8.962E-04	8.962E-04	9.371E-04	1.008E-04	1.119E-03	1.277E-03	1.492E-03
1.471E-03	1.475E-03	1.494E-03	1.539E-03	1.539E-03	1.623E-03	1.756E-03	1.949E-03	2.205E-03	2.535E-03
2.544E-03	2.566E-03	2.611E-03	2.698E-03	2.698E-03	2.825E-03	2.977E-03	3.245E-03	3.525E-03	3.925E-03
3.158E-03	3.158E-03	3.182E-03	3.233E-03	3.233E-03	3.316E-03	3.441E-03	3.625E-03	3.887E-03	4.257E-03
5.569E-03	5.569E-03	5.585E-03	5.641E-03	5.641E-03	5.740E-03	5.906E-03	6.173E-03	6.584E-03	7.198E-03
7.225E-03	7.225E-03	7.278E-03	7.396E-03	7.396E-03	7.602E-03	7.932E-03	8.431E-03	9.158E-03	1.019E-02
6.884E-03	6.884E-03	6.962E-03	7.123E-03	7.123E-03	7.376E-03	7.749E-03	8.272E-03	8.984E-03	9.934E-03
9.236E-03	9.236E-03	9.346E-03	9.566E-03	9.566E-03	9.884E-03	1.034E-02	1.095E-02	1.172E-02	1.271E-02
1.635E-02	1.635E-02	1.712E-02	1.746E-02	1.746E-02	1.796E-02	1.865E-02	1.953E-02	2.070E-02	2.213E-02
3.084E-02	3.084E-02	3.108E-02	3.153E-02	3.153E-02	3.217E-02	3.303E-02	3.410E-02	3.539E-02	3.691E-02
2.096E-01	2.096E-01	2.107E-01	2.125E-01	2.125E-01	2.149E-01	2.181E-01	2.220E-01	2.265E-01	2.316E-01
1.850E-01	1.850E-01	1.856E-01	1.868E-01	1.868E-01	1.884E-01	1.906E-01	1.931E-01	1.960E-01	1.993E-01
1.125E 01	1.125E 01	1.128E 01	1.134E 01	1.134E 01	1.143E 01	1.155E 01	1.169E 01	1.184E 01	1.202E 01
4.883E 01	4.883E 01	4.897E 01	4.922E 01	4.922E 01	4.958E 01	5.004E 01	5.059E 01	5.121E 01	5.190E 01
1.428E 02	1.428E 02	1.432E 02	1.440E 02	1.440E 02	1.450E 02	1.462E 02	1.478E 02	1.495E 02	1.514E 02
3.833E 02	3.833E 02	3.843E 02	3.861E 02	3.861E 02	3.886E 02	3.919E 02	3.958E 02	4.002E 02	4.050E 02
1.027E 03	1.027E 03	1.030E 03	1.034E 03	1.034E 03	1.041E 03	1.049E 03	1.059E 03	1.070E 03	1.083E 03
2.248E 03	2.248E 03	2.253E 03	2.263E 03	2.263E 03	2.277E 03	2.294E 03	2.315E 03	2.338E 03	2.364E 03
3.268E 03	3.268E 03	3.276E 03	3.290E 03	3.290E 03	3.309E 03	3.332E 03	3.358E 03	3.388E 03	3.420E 03
ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	ANGLE 18	ANGLE 19
MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	MU=0.9894	MU=0.9894
7.891E-04	1.418E-03	1.898E-03	2.822E-03	5.345E-03	1.291E-02	3.621E-02	3.523E-01	3.523E-01	3.523E-01
1.937E-03	2.169E-03	2.631E-03	3.196E-03	4.590E-03	7.377E-03	1.421E-02	4.410E-02	4.410E-02	4.410E-02
1.297E 01	1.676E-03	2.001E-03	2.696E-03	3.716E-03	5.767E-03	1.007E-02	2.370E-02	2.805E-02	2.805E-02
1.808E-03	2.125E-03	2.727E-03	3.534E-03	5.012E-03	7.600E-03	1.311E-02	3.045E-02	3.677E-02	4.617E-02
3.638E-03	5.331E-03	6.277E-03	5.700E-03	7.608E-03	1.126E-02	1.835E-02	3.985E-02	5.641E-02	8.002E-02
4.364E-03	5.945E-03	6.277E-03	8.098E-03	1.060E-02	1.504E-02	2.311E-02	4.586E-02	8.002E-02	8.121E-02
4.657E-03	6.645E-03	6.553E-03	8.322E-03	1.060E-02	1.445E-02	2.093E-02	3.723E-02	6.880E-02	1.400E-01
8.374E-03	1.168E-03	1.146E-02	1.384E-02	1.824E-02	2.454E-02	3.695E-02	6.880E-02	1.400E-01	1.994E-01
1.187E-02	1.347E-02	1.668E-02	2.042E-02	2.666E-02	3.578E-02	5.270E-02	9.669E-02	1.994E-01	1.994E-01
1.145E-02	1.262E-02	1.521E-02	1.780E-02	2.212E-02	2.777E-02	3.759E-02	6.047E-02	1.721E-01	1.721E-01
1.195E-02	1.355E-02	1.767E-02	1.992E-02	2.338E-02	2.748E-02	3.745E-02	4.526E-02	1.963E-01	1.963E-01
2.343E-02	2.645E-02	2.843E-02	3.202E-02	3.564E-02	4.079E-02	4.672E-02	5.685E-02	3.215E-01	3.215E-01
3.838E-02	4.087E-02	4.271E-02	4.540E-02	4.769E-02	5.047E-02	5.287E-02	5.540E-02	4.916E-01	4.916E-01
2.371E-01	2.432E-01	2.491E-01	2.552E-01	2.607E-01	2.656E-01	2.694E-01	2.718E-01	2.971E 00	2.971E 00
2.063E-01	2.063E-01	2.099E-01	2.133E-01	2.165E-01	2.191E-01	2.211E-01	2.222E-01	2.536E 00	2.536E 00
1.239E 01	1.239E 01	1.258E 01	1.275E 01	1.291E 01	1.305E 01	1.314E 01	1.320E 01	1.526E 02	1.526E 02
5.336E 01	5.336E 01	5.409E 01	5.478E 01	5.540E 01	5.595E 01	5.628E 01	5.650E 01	6.584E 02	6.584E 02
5.252E 01	5.252E 01	5.252E 01	5.252E 01	5.252E 01	5.252E 01	5.252E 01	5.252E 01	1.920E 03	1.920E 03
1.535E 02	1.535E 02	1.575E 02	1.594E 02	1.611E 02	1.625E 02	1.636E 02	1.641E 02	5.132E 03	5.132E 03
4.101E 02	4.153E 02	4.203E 02	4.250E 02	4.292E 02	4.327E 02	4.352E 02	4.367E 02	1.371E 04	1.371E 04
1.095E 03	1.108E 03	1.121E 03	1.133E 03	1.144E 03	1.152E 03	1.159E 03	1.162E 03	2.992E 03	2.992E 03
2.418E 03	2.418E 03	2.444E 03	2.469E 03	2.491E 03	2.508E 03	2.525E 03	2.542E 03	3.426E 04	3.426E 04
3.488E 03	3.488E 03	3.524E 03	3.556E 03	3.584E 03	3.606E 03	3.621E 03	3.629E 03		
3.454E 03	3.454E 03	3.454E 03	3.454E 03	3.454E 03	3.454E 03	3.454E 03	3.454E 03		

12.20 TO 15.00 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01---1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.907E-04	-1.512E-04	-3.277E-05	4.617E-05	1.305E-04	9.803E-05	4.733E-05	8.698E-05	2.901E-04	8.698E-05
8.555E-04	8.393E-04	7.822E-04	7.067E-04	6.629E-04	6.837E-04	7.832E-04	9.481E-04	1.146E-03	1.146E-03
5.793E-04	5.767E-04	5.677E-04	5.576E-04	5.582E-04	5.815E-04	6.383E-04	7.351E-04	8.737E-04	8.737E-04
6.36E 00---8.19E 00	6.834E-04	6.913E-04	7.085E-04	7.433E-04	8.053E-04	9.025E-04	1.042E-03	1.229E-03	1.229E-03
4.97E 00---6.36E 00	1.232E-03	1.248E-03	1.288E-03	1.362E-03	1.481E-03	1.653E-03	1.882E-03	2.174E-03	2.174E-03
4.07E 00---4.97E 00	2.24E-03	2.264E-03	2.341E-03	2.452E-03	2.604E-03	2.804E-03	3.070E-03	3.427E-03	3.427E-03
3.01E 00---4.07E 00	2.750E-03	2.770E-03	2.810E-03	2.878E-03	2.983E-03	3.139E-03	3.355E-03	3.689E-03	3.689E-03
2.46E 00---3.01E 00	4.829E-03	4.852E-03	4.904E-03	4.996E-03	5.151E-03	5.401E-03	5.789E-03	6.372E-03	6.372E-03
2.35E 00---2.46E 00	6.370E-03	6.429E-03	6.555E-03	6.770E-03	7.108E-03	7.613E-03	8.342E-03	9.372E-03	9.372E-03
1.83E 00---2.35E 00	6.408E-03	6.427E-03	6.467E-03	6.567E-03	6.921E-03	7.615E-03	8.524E-03	9.471E-03	9.471E-03
1.11E 00---1.83E 00	9.043E-03	9.182E-03	9.401E-03	9.731E-03	1.019E-02	1.080E-02	1.160E-02	1.261E-02	1.261E-02
5.50E-01---1.11E 00	1.778E-02	1.798E-02	1.836E-02	1.892E-02	1.970E-02	2.071E-02	2.199E-02	2.360E-02	2.360E-02
1.11E-01---5.50E-01	3.522E-02	3.551E-02	3.606E-02	3.684E-02	3.788E-02	3.918E-02	4.075E-02	4.260E-02	4.260E-02
5.83E-04---3.35E-02	2.573E-01	2.586E-01	2.609E-01	2.642E-01	2.685E-01	2.738E-01	2.795E-01	2.867E-01	2.867E-01
1.01E-04---5.83E-04	1.441E 01	1.446E 01	1.455F 01	1.468E 01	1.485E 01	1.505E 01	1.528E 01	1.553E 01	1.553E 01
2.90E-05---1.01E-04	6.334E 01	6.355E 01	6.393E 01	6.446E 01	6.515E 01	6.597E 01	6.690E 01	6.793E 01	6.793E 01
1.07E-05---2.90E-05	1.870E 02	1.876E 02	1.887E 02	1.902E 02	1.922E 02	1.945E 02	1.972E 02	2.001E 02	2.001E 02
3.06E-06---1.07E-05	5.071E 02	5.087E 02	5.115E 02	5.155E 02	5.202E 02	5.267E 02	5.336E 02	5.411E 02	5.411E 02
1.12E-06---3.06E-06	1.370E 03	1.374E 03	1.381E 03	1.392E 03	1.405E 03	1.420E 03	1.438E 03	1.458E 03	1.458E 03
4.14E-07---1.12E-06	3.019E 03	3.028E 03	3.044E 03	3.066E 03	3.094E 03	3.127E 03	3.165E 03	3.206E 03	3.206E 03
0.0	4.420E 03	4.423E 03	4.436E 03	4.458E 03	4.488E 03	4.526E 03	4.569E 03	4.618E 03	4.618E 03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01---1.50E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	5.881E-02
1.907E-04	6.393E-04	1.022E-03	1.432E-03	2.119E-03	3.053E-03	4.055E-03	5.282E-03	6.793E-03	8.698E-05
8.555E-04	1.342E-03	1.558E-03	1.817E-03	2.111E-03	2.509E-03	3.009E-03	3.616E-03	4.355E-03	2.788E-02
5.793E-04	1.060E-03	1.291E-03	1.635E-03	2.065E-03	2.610E-03	3.273E-03	4.066E-03	5.022E-03	2.283E-02
6.36E 00---8.19E 00	1.471E-03	1.807E-03	2.284E-03	2.851E-03	3.549E-03	4.427E-03	5.533E-03	6.902E-03	3.125E-02
4.97E 00---6.36E 00	2.562E-03	3.051E-03	3.607E-03	4.237E-03	4.970E-03	5.828E-03	6.847E-03	8.092E-03	4.895E-02
4.07E 00---4.97E 00	3.928E-03	4.604E-03	5.401E-03	6.327E-03	7.395E-03	8.647E-03	1.010E-02	1.175E-02	7.023E-02
3.01E 00---4.07E 00	4.168E-03	4.813E-03	5.601E-03	6.534E-03	7.629E-03	8.902E-03	1.038E-02	1.202E-02	6.971E-02
2.46E 00---3.01E 00	7.201E-03	8.488E-03	1.024E-02	1.200E-02	1.378E-02	1.562E-02	1.750E-02	1.942E-02	1.261E-01
2.35E 00---2.46E 00	1.080E-02	1.286E-02	1.507E-02	1.746E-02	2.009E-02	2.294E-02	2.602E-02	2.935E-02	1.886E-01
1.83E 00---2.35E 00	1.070E-02	1.239E-02	1.453E-02	1.714E-02	2.013E-02	2.352E-02	2.729E-02	3.142E-02	1.639E-01
1.11E 00---1.83E 00	1.385E-02	1.549E-02	1.744E-02	1.995E-02	2.302E-02	2.669E-02	3.096E-02	3.585E-02	1.928E-01
5.50E-01---1.11E 00	2.565E-02	2.797E-02	3.097E-02	3.461E-02	3.860E-02	4.344E-02	4.923E-02	5.685E-02	3.427E-01
1.11E-01---5.50E-01	4.478E-02	4.708E-02	4.977E-02	5.253E-02	5.547E-02	5.828E-02	6.087E-02	6.288E-02	5.674E-01
3.35E-02---1.11E-01	2.943E-01	3.021E-01	3.102E-01	3.182E-01	3.256E-01	3.319E-01	3.368E-01	3.398E-01	3.683E 00
5.83E-04---3.35E-02	2.733E-01	2.624E-01	2.574E-01	2.506E-01	2.403E-01	2.266E-01	2.093E-01	1.846E-01	3.218E 00
1.01E-04---5.83E-04	1.580E 01	1.608E 01	1.635E 01	1.661E 01	1.685E 01	1.705E 01	1.719E 01	1.728E 01	1.976E 02
2.90E-05---1.01E-04	6.903E 01	7.015E 01	7.125E 01	7.230E 01	7.324E 01	7.402E 01	7.459E 01	7.492E 01	8.632E 02
1.07E-05---2.90E-05	2.033E 02	2.064E 02	2.096E 02	2.125E 02	2.152E 02	2.174E 02	2.190E 02	2.199E 02	2.542E 03
3.06E-06---1.07E-05	5.491E 02	5.573E 02	5.653E 02	5.729E 02	5.796E 02	5.852E 02	5.893E 02	5.916E 02	6.868E 03
1.12E-06---3.06E-06	1.479E 03	1.500E 03	1.520E 03	1.540E 03	1.557E 03	1.571E 03	1.581E 03	1.587E 03	1.849E 04
4.14E-07---1.12E-06	3.250E 03	3.294E 03	3.338E 03	3.378E 03	3.414E 03	3.444E 03	3.466E 03	3.479E 03	4.065E 04
0.0	4.727E 03	4.786E 03	4.843E 03	4.897E 03	4.944E 03	4.981E 03	5.007E 03	5.022E 03	5.917E 04

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	-1.092E-04	-8.588E-05	-1.506E-05	3.458E-05	8.377E-05	4.150E-05	3.546E-05	7.219E-05	2.156E-04
1.00E 01--1.22E 01	5.416E-04	5.323E-04	4.936E-04	4.572E-04	4.345E-04	4.518E-04	5.188E-04	6.285E-04	7.614E-04
8.19E 00--1.00E 01	3.962E-04	3.948E-04	3.901E-04	3.857E-04	3.891E-04	4.090E-04	4.538E-04	5.289E-04	6.359E-04
6.36E 00--8.19E 00	5.085E-04	5.094E-04	5.155E-04	5.280E-04	5.561E-04	6.064E-04	6.856E-04	7.989E-04	9.504E-04
4.07E 00--6.36E 00	9.670E-04	9.670E-04	9.799E-04	1.012E-03	1.073E-03	1.172E-03	1.314E-03	1.502E-03	1.742E-03
3.01E 00--4.07E 00	1.788E-03	1.796E-03	1.829E-03	1.892E-03	1.983E-03	2.106E-03	2.271E-03	2.489E-03	2.782E-03
2.46E 00--3.01E 00	2.222E-03	2.222E-03	2.240E-03	2.270E-03	2.322E-03	2.404E-03	2.528E-03	2.710E-03	2.972E-03
2.35E 00--2.46E 00	3.872E-03	3.877E-03	3.897E-03	3.942E-03	4.021E-03	4.156E-03	4.372E-03	4.708E-03	5.213E-03
2.35E 00--2.46E 00	5.164E-03	5.177E-03	5.234E-03	5.354E-03	5.555E-03	5.867E-03	6.325E-03	6.983E-03	7.909E-03
1.83E 00--2.35E 00	5.473E-03	5.490E-03	5.563E-03	5.710E-03	5.939E-03	6.274E-03	6.743E-03	7.381E-03	8.234E-03
1.11E 00--1.83E 00	8.037E-03	8.061E-03	8.164E-03	8.364E-03	8.665E-03	9.086E-03	9.647E-03	1.037E-02	1.130E-02
5.50E 01--1.11E 00	1.662E-02	1.666E-02	1.686E-02	1.723E-02	1.778E-02	1.855E-02	1.954E-02	2.081E-02	2.240E-02
1.11E 01--5.50E 01	3.520E-02	3.528E-02	3.558E-02	3.615E-02	3.697E-02	3.806E-02	3.943E-02	4.108E-02	4.302E-02
3.35E 02--1.11E 01	2.722E-01	2.722E-01	2.737E-01	2.763E-01	2.805E-01	2.849E-01	2.908E-01	2.977E-01	3.055E-01
5.83E 04--3.35E 02	2.502E-01	2.504E-01	2.515E-01	2.534E-01	2.560E-01	2.595E-01	2.636E-01	2.683E-01	2.736E-01
1.01E 04--5.83E 04	1.573E 01	1.575E 01	1.581E 01	1.592E 01	1.607E 01	1.627E 01	1.651E 01	1.678E 01	1.708E 01
2.90E 05--1.01E 04	6.984E 01	6.990E 01	7.015E 01	7.061E 01	7.125E 01	7.208E 01	7.307E 01	7.421E 01	7.546E 01
1.07E 05--2.90E 05	2.077E 02	2.079E 02	2.086E 02	2.100E 02	2.118E 02	2.142E 02	2.171E 02	2.204E 02	2.240E 02
3.06E 06--1.07E 05	5.681E 02	5.686E 02	5.705E 02	5.741E 02	5.790E 02	5.853E 02	5.929E 02	6.016E 02	6.110E 02
1.12E 06--3.06E 06	1.545E 03	1.546E 03	1.551E 03	1.560E 03	1.573E 03	1.590E 03	1.610E 03	1.632E 03	1.657E 03
4.14E 07--1.12E 06	3.425E 03	3.428E 03	3.439E 03	3.458E 03	3.486E 03	3.522E 03	3.565E 03	3.613E 03	3.666E 03
0.0 --4.14E-07	5.051E 03	5.054E 03	5.070E 03	5.099E 03	5.137E 03	5.186E 03	5.241E 03	5.304E 03	5.375E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	4.487E-04	7.118E-04	9.927E-04	1.495E-03	2.874E-03	6.728E-03	1.753E-02	1.106E-01	3.631E-02
1.00E 01--1.22E 01	8.988E-04	1.040E-03	1.229E-03	1.578E-03	2.317E-03	3.912E-03	7.611E-03	2.031E-02	1.915E-02
8.19E 00--1.00E 01	7.760E-04	9.601E-04	1.222E-03	1.648E-03	2.408E-03	3.854E-03	6.875E-03	1.561E-02	1.740E-02
6.36E 00--8.19E 00	1.148E-03	1.416E-03	1.810E-03	2.445E-03	3.540E-03	5.524E-03	9.482E-03	2.066E-02	2.491E-02
4.07E 00--6.36E 00	2.050E-03	2.471E-03	3.086E-03	4.048E-03	5.609E-03	8.255E-03	1.319E-02	2.615E-02	3.960E-02
3.01E 00--4.07E 00	3.191E-03	3.773E-03	4.628E-03	5.922E-03	7.921E-03	1.112E-02	1.664E-02	2.946E-02	5.726E-02
2.46E 00--3.01E 00	3.351E-03	3.900E-03	4.689E-03	5.831E-03	7.479E-03	9.894E-03	1.363E-02	2.094E-02	3.563E-02
2.35E 00--2.46E 00	5.958E-03	7.037E-03	8.606E-03	1.090E-02	1.431E-02	1.960E-02	2.864E-02	4.968E-02	1.050E-01
1.83E 00--2.35E 00	9.210E-03	1.104E-02	1.365E-02	1.742E-02	2.301E-02	3.165E-02	4.431E-02	8.069E-02	1.635E-01
1.07E 05--2.90E 05	9.364E-03	1.085E-02	1.231E-02	1.590E-02	1.888E-02	2.368E-02	3.076E-02	4.415E-02	1.427E-01
1.11E 01--5.50E 01	1.246E-02	1.390E-02	1.599E-02	2.061E-02	2.691E-02	3.791E-02	5.294E-02	8.415E-02	1.718E-01
5.83E 04--3.35E 02	4.525E-02	2.673E-02	2.959E-02	3.299E-02	3.693E-02	4.144E-02	4.645E-02	5.212E-02	3.253E-01
3.35E 02--1.11E 01	3.139E-01	3.229E-01	3.320E-01	3.409E-01	3.492E-01	3.563E-01	3.617E-01	3.649E-01	5.733E-01
5.83E 04--3.35E 02	2.793E-01	2.851E-01	2.910E-01	2.966E-01	3.017E-01	3.059E-01	3.091E-01	3.109E-01	3.491E 00
1.01E 04--5.83E 04	1.741E 01	1.774E 01	1.807E 01	1.838E 01	1.866E 01	1.890E 01	1.907E 01	1.917E 01	2.170E 02
2.90E 05--1.01E 04	7.679E 01	7.816E 01	7.951E 01	8.080E 01	8.194E 01	8.290E 01	8.360E 01	8.401E 01	9.601E 02
1.07E 05--2.90E 05	2.279E 02	2.318E 02	2.357E 02	2.394E 02	2.427E 02	2.454E 02	2.474E 02	2.486E 02	2.849E 03
3.06E 06--1.07E 05	6.211E 02	6.314E 02	6.415E 02	6.511E 02	6.597E 02	6.667E 02	6.726E 02	6.750E 02	7.765E 03
1.12E 06--3.06E 06	1.683E 03	1.710E 03	1.737E 03	1.762E 03	1.784E 03	1.802E 03	1.816E 03	1.823E 03	2.105E 04
4.14E 07--1.12E 06	3.723E 03	3.780E 03	3.836E 03	3.889E 03	3.936E 03	3.975E 03	4.004E 03	4.020E 03	4.655E 04
0.0 --4.14E-07	5.447E 03	5.524E 03	5.599E 03	5.670E 03	5.731E 03	5.781E 03	5.816E 03	5.835E 03	6.816E 04



(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000 -6.143E-05	ANGLE 2 MU=0.9894 -4.796E-05	ANGLE 3 MU=0.9446 -6.454E-06	ANGLE 4 MU=0.8656 2.381E-05	ANGLE 5 MU=0.7550 5.206E-05	ANGLE 6 MU=0.6179 3.818E-05	ANGLE 7 MU=0.4580 2.606E-05	ANGLE 8 MU=0.2816 5.511E-05	ANGLE 9 MU=0.0950 1.512E-04
1.22E 01---1.50E 01	3.359E-04	3.307E-04	3.128E-04	2.893E-04	2.780E-04	2.907E-04	3.342E-04	4.050E-04	4.916E-04
1.00E 01---1.22E 01	2.626E-04	2.602E-04	2.598E-04	2.585E-04	2.626E-04	2.781E-04	3.113E-04	3.665E-04	4.451E-04
8.19E 00---1.00E 01	3.644E-04	3.651E-04	3.689E-04	3.793E-04	4.069E-04	4.399E-04	5.014E-04	5.892E-04	7.060E-04
6.36E 00---8.19E 00	7.274E-04	7.294E-04	7.394E-04	7.644E-04	8.123E-04	8.901E-04	1.002E-03	1.149E-03	1.336E-03
4.97E 00---6.36E 00	1.381E-03	1.387E-03	1.413E-03	1.462E-03	1.532E-03	1.629E-03	1.757E-03	1.927E-03	2.159E-03
3.01E 00---4.97E 00	1.716E-03	1.719E-03	1.729E-03	1.751E-03	1.789E-03	1.850E-03	1.944E-03	2.084E-03	2.287E-03
2.46E 00---3.01E 00	2.959E-03	2.963E-03	2.980E-03	3.017E-03	3.082E-03	3.192E-03	3.349E-03	3.644E-03	4.058E-03
2.35E 00---2.46E 00	3.987E-03	3.999E-03	4.050E-03	4.156E-03	4.330E-03	4.596E-03	4.985E-03	5.538E-03	6.317E-03
1.83E 00---2.35E 00	4.417E-03	4.431E-03	4.493E-03	4.618E-03	4.812E-03	5.094E-03	5.489E-03	6.026E-03	6.745E-03
1.11E 00---1.83E 00	6.697E-03	6.718E-03	6.805E-03	6.976E-03	7.232E-03	7.591E-03	8.069E-03	8.687E-03	9.473E-03
5.50E 01---1.11E 00	1.446E-02	1.450E-02	1.468E-02	1.502E-02	1.552E-02	1.621E-02	1.711E-02	1.826E-02	1.970E-02
1.11E 01---5.50E 01	3.235E-02	3.242E-02	3.271E-02	3.326E-02	3.404E-02	3.508E-02	3.638E-02	3.796E-02	3.981E-02
3.35E 02---1.11E 01	2.611E-01	2.615E-01	2.629E-01	2.656E-01	2.693E-01	2.742E-01	2.802E-01	2.872E-01	2.950E-01
5.83E 04---3.35E 02	2.436E-01	2.439E-01	2.450E-01	2.469E-01	2.496E-01	2.532E-01	2.574E-01	2.623E-01	2.677E-01
1.01E 04---5.83E 04	1.550E 01	1.551E 01	1.557E 01	1.569E 01	1.585E 01	1.606E 01	1.631E 01	1.659E 01	1.691E 01
2.90E 05---1.01E 04	6.931E 01	6.938E 01	6.964E 01	7.013E 01	7.081E 01	7.169E 01	7.274E 01	7.395E 01	7.528E 01
1.07E 05---2.90E 05	2.074E 02	2.075E 02	2.083E 02	2.098E 02	2.118E 02	2.143E 02	2.174E 02	2.210E 02	2.248E 02
3.06E 06---1.07E 05	5.711E 02	5.716E 02	5.737E 02	5.775E 02	5.828E 02	5.897E 02	5.979E 02	6.073E 02	6.176E 02
1.12E 06---3.06E 06	1.561E 03	1.562E 03	1.568E 03	1.578E 03	1.592E 03	1.610E 03	1.632E 03	1.657E 03	1.684E 03
4.14E 07---1.12E 06	3.478E 03	3.481E 03	3.493E 03	3.515E 03	3.546E 03	3.585E 03	3.632E 03	3.686E 03	3.745E 03
0.0 ---4.14E 07	5.157E 03	5.161E 03	5.179E 03	5.210E 03	5.253E 03	5.306E 03	5.368E 03	5.438E 03	5.515E 03

ENERGY GROUP (MEV)	ANGLE 1C MU=0.0950 3.025E-04	ANGLE 11 MU=0.2816 4.729E-04	ANGLE 12 MU=0.4580 6.620E-04	ANGLE 13 MU=0.6179 1.011E-03	ANGLE 14 MU=0.7550 1.955E-03	ANGLE 15 MU=0.8656 4.526E-03	ANGLE 16 MU=0.9446 1.149E-02	ANGLE 17 MU=0.9894 6.202E-02	SCALAR FLUX
1.22E 01---1.50E 01	5.824E-04	6.779E-04	8.077E-04	1.052E-03	1.372E-03	2.696E-03	5.251E-03	1.358E-02	2.222E-02
1.00E 01---1.22E 01	5.481E-04	6.832E-04	8.782E-04	1.200E-03	1.786E-03	2.912E-03	5.243E-03	1.170E-02	1.278E-02
8.19E 00---1.00E 01	8.583E-04	1.065E-03	1.373E-03	1.878E-03	2.755E-03	4.345E-03	7.457E-03	1.576E-02	1.273E-02
6.36E 00---8.19E 00	1.577E-03	1.908E-03	2.397E-03	3.165E-03	4.415E-03	6.516E-03	1.033E-02	1.969E-02	1.904E-02
4.97E 00---6.36E 00	2.481E-03	2.944E-03	3.629E-03	4.664E-03	6.257E-03	8.767E-03	1.296E-02	2.194E-02	3.066E-02
3.01E 00---4.97E 00	4.071E-03	4.908E-03	6.191E-03	8.495E-03	1.153E-02	1.585E-02	2.304E-02	3.674E-02	4.457E-02
2.46E 00---3.01E 00	6.667E-03	8.957E-03	1.117E-02	1.440E-02	1.921E-02	2.667E-02	3.924E-02	5.696E-02	8.502E-02
2.35E 00---2.46E 00	7.410E-03	8.957E-03	1.117E-02	1.440E-02	1.921E-02	2.667E-02	3.924E-02	5.696E-02	8.502E-02
1.83E 00---2.35E 00	7.696E-03	8.949E-03	1.060E-02	1.278E-02	1.567E-02	1.959E-02	2.516E-02	3.472E-02	4.466E-02
5.50E 01---1.11E 00	1.046E-02	1.168E-02	1.320E-02	1.505E-02	1.727E-02	1.992E-02	2.298E-02	2.659E-02	3.106E-02
1.11E 01---5.50E 01	2.147E-02	2.363E-02	2.620E-02	2.924E-02	3.273E-02	3.664E-02	4.079E-02	4.495E-02	5.063E-02
3.35E 02---1.11E 01	4.194E-02	4.432E-02	4.691E-02	4.964E-02	5.239E-02	5.498E-02	5.715E-02	5.861E-02	6.030E-02
5.83E 04---3.35E 02	3.035E-01	3.125E-01	3.217E-01	3.307E-01	3.390E-01	3.461E-01	3.515E-01	3.546E-01	3.796E 00
1.01E 04---5.83E 04	2.735E-01	2.796E-01	2.856E-01	2.914E-01	2.966E-01	3.010E-01	3.042E-01	3.061E-01	3.419E 00
2.90E 05---1.01E 04	1.725E 01	1.760E 01	1.795E 01	1.827E 01	1.857E 01	1.882E 01	1.900E 01	1.911E 01	2.156E 02
1.07E 05---2.90E 05	7.670E 01	7.815E 01	7.960E 01	8.096E 01	8.219E 01	8.321E 01	8.396E 01	8.440E 01	9.586E 02
3.06E 06---1.07E 05	2.290E 02	2.332E 02	2.374E 02	2.414E 02	2.449E 02	2.479E 02	2.501E 02	2.513E 02	2.862E 03
1.12E 06---3.06E 06	6.286E 02	6.398E 02	6.509E 02	6.614E 02	6.707E 02	6.785E 02	6.842E 02	6.875E 02	7.857E 03
4.14E 07---1.12E 06	1.713E 03	1.742E 03	1.772E 03	1.799E 03	1.824E 03	1.844E 03	1.859E 03	1.868E 03	2.141E 04
0.0 ---4.14E 07	3.807E 03	3.871E 03	3.933E 03	3.993E 03	4.045E 03	4.089E 03	4.121E 03	4.139E 03	4.759E 04
	5.598E 03	5.684E 03	5.769E 03	5.848E 03	5.918E 03	5.974E 03	6.013E 03	6.036E 03	7.003E 04

4 PI R\*2 FLUENCE AT 900.C METERS

12.20 TO 15.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/ST-RADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.00E 01	-1.041E-05	-7.922E-06	-6.444E-08	6.199E-06	1.140E-05	8.732E-06	8.660E-06	1.817E-05	4.246E-05
1.00E 01	7.456E-05	7.378E-05	7.103E-05	6.766E-05	6.658E-05	7.034E-05	8.087E-05	9.13E-05	1.201E-04
8.19E 00	6.868E-05	6.874E-05	6.903E-05	6.988E-05	7.220E-05	7.777E-05	8.684E-05	1.072E-04	1.336E-04
6.36E 00	1.182E-04	1.184E-04	1.199E-04	1.240E-04	1.325E-04	1.479E-04	1.722E-04	2.065E-04	2.519E-04
4.97E 00	2.722E-04	2.729E-04	2.769E-04	2.871E-04	3.066E-04	3.385E-04	3.840E-04	4.435E-04	5.186E-04
4.07E 00	5.438E-04	5.462E-04	5.565E-04	5.758E-04	6.039E-04	6.423E-04	6.936E-04	7.626E-04	8.574E-04
3.01E 00	6.718E-04	6.725E-04	6.757E-04	6.829E-04	6.982E-04	7.186E-04	7.538E-04	8.072E-04	8.864E-04
2.35E 00	1.119E-03	1.120E-03	1.128E-03	1.146E-03	1.175E-03	1.225E-03	1.304E-03	1.426E-03	1.610E-03
1.83E 00	1.545E-03	1.551E-03	1.578E-03	1.632E-03	1.718E-03	1.847E-03	2.031E-03	2.290E-03	2.654E-03
1.11E 00	1.901E-03	1.908E-03	1.939E-03	1.998E-03	2.090E-03	2.224E-03	2.410E-03	2.663E-03	3.002E-03
5.50E-01	3.086E-03	3.096E-03	3.139E-03	3.220E-03	3.344E-03	3.517E-03	3.747E-03	4.045E-03	4.423E-03
1.11E-01	7.331E-03	7.354E-03	7.451E-03	7.635E-03	7.905E-03	8.286E-03	8.780E-03	9.412E-03	1.020E-02
3.35E-02	1.844E-02	1.848E-02	1.866E-02	1.899E-02	1.947E-02	2.011E-02	2.091E-02	2.188E-02	2.302E-02
5.83E-04	1.632E-01	1.635E-01	1.645E-01	1.663E-01	1.689E-01	1.722E-01	1.763E-01	1.811E-01	1.864E-01
1.01E-04	1.564E-01	1.568E-01	1.576E-01	1.589E-01	1.609E-01	1.634E-01	1.664E-01	1.699E-01	1.737E-01
2.90E-05	1.019E 01	1.021E 01	1.025E 01	1.034E 01	1.045E 01	1.061E 01	1.079E 01	1.100E 01	1.123E 01
1.07E-05	4.630E 01	4.635E 01	4.655E 01	4.691E 01	4.742E 01	4.808E 01	4.887E 01	4.978E 01	5.078E 01
3.06E-06	1.402E 02	1.403E 02	1.409E 02	1.420E 02	1.435E 02	1.455E 02	1.478E 02	1.505E 02	1.535E 02
1.12E-07	3.915E 02	3.919E 02	3.935E 02	3.965E 02	4.006E 02	4.060E 02	4.124E 02	4.198E 02	4.279E 02
0.0	1.082E 03	1.083E 03	1.087E 03	1.095E 03	1.106E 03	1.121E 03	1.138E 03	1.160E 03	1.180E 03
	2.435E 03	2.438E 03	2.447E 03	2.465E 03	2.489E 03	2.521E 03	2.559E 03	2.603E 03	2.650E 03
	3.651E 03	3.655E 03	3.669E 03	3.694E 03	3.729E 03	3.772E 03	3.823E 03	3.881E 03	3.945E 03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
1.00E 01	7.858E-05	1.199E-04	1.708E-04	2.710E-04	5.300E-04	1.191E-03	2.844E-03	1.097E-02	4.879E-03
8.19E 00	1.444E-04	1.713E-04	2.097E-04	2.840E-04	4.444E-04	7.878E-04	1.532E-03	3.623E-03	3.435E-03
6.36E 00	1.684E-04	2.143E-04	2.824E-04	4.009E-04	6.265E-04	1.070E-03	1.972E-03	4.216E-03	4.331E-03
4.97E 00	3.108E-04	3.920E-04	5.172E-04	7.299E-04	1.109E-03	1.795E-03	3.081E-03	6.040E-03	7.336E-03
4.07E 00	6.158E-04	7.515E-04	9.568E-04	1.285E-03	1.819E-03	2.698E-03	4.196E-03	7.285E-03	1.216E-02
3.01E 00	9.911E-04	1.186E-03	1.476E-03	1.915E-03	2.581E-03	3.595E-03	5.160E-03	7.891E-03	1.781E-02
2.35E 00	1.002E-03	1.168E-03	1.405E-03	1.737E-03	2.193E-03	2.804E-03	3.609E-03	4.691E-03	1.606E-02
1.83E 00	1.800E-03	2.276E-03	2.853E-03	3.701E-03	4.957E-03	6.859E-03	9.868E-03	1.548E-02	3.417E-02
5.50E-01	3.165E-03	3.898E-03	4.965E-03	6.552E-03	8.963E-03	1.274E-02	1.899E-02	3.136E-02	5.997E-02
1.11E 00	3.451E-03	4.044E-03	4.822E-03	5.842E-03	7.171E-03	8.903E-03	1.116E-02	1.426E-02	5.230E-02
3.35E-02	4.897E-03	5.482E-03	6.197E-03	7.055E-03	8.058E-03	9.182E-03	1.035E-02	1.141E-02	6.663E-02
5.83E-04	1.118E-02	1.236E-02	1.376E-02	1.541E-02	1.726E-02	1.925E-02	2.119E-02	2.277E-02	1.488E-01
1.01E-04	2.432E-02	2.578E-02	2.737E-02	2.902E-02	3.066E-02	3.217E-02	3.340E-02	3.417E-02	3.077E-01
2.90E-05	1.923E-01	1.985E-01	2.048E-01	2.109E-01	2.166E-01	2.214E-01	2.250E-01	2.272E-01	2.404E 00
1.07E-05	1.779E-01	1.822E-01	1.865E-01	1.906E-01	1.943E-01	1.974E-01	1.999E-01	2.010E-01	2.222E 00
3.06E-06	1.148E 01	1.174E 01	1.200E 01	1.224E 01	1.246E 01	1.264E 01	1.278E 01	1.286E 01	1.434E 00
4.14E-07	5.185E 01	5.295E 01	5.404E 01	5.508E 01	5.601E 01	5.679E 01	5.736E 01	5.769E 01	6.478E 00
0.0	1.567E 02	1.600E 02	1.632E 02	1.663E 02	1.691E 02	1.714E 02	1.730E 02	1.740E 02	1.958E 03
	4.365E 02	4.454E 02	4.541E 02	4.625E 02	4.699E 02	4.761E 02	4.806E 02	4.833E 02	5.453E 03
	1.203E 03	1.227E 03	1.250E 03	1.272E 03	1.292E 03	1.309E 03	1.321E 03	1.328E 03	1.503E 04
	2.701E 03	2.753E 03	2.805E 03	2.853E 03	2.897E 03	2.933E 03	2.959E 03	2.975E 03	3.375E 04
	4.014E 03	4.085E 03	4.155E 03	4.222E 03	4.280E 03	4.327E 03	4.361E 03	4.380E 03	5.019E 04



4 PI R\*2 FLUENCE AT 1500.0 METERS

12.20 TU 15.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01	0.0000	0.9894	0.9446	0.8656	0.7550	0.6179	0.4580	0.2816	0.0950
1.22E 01	-1.943E-07	-1.943E-07	3.511E-08	3.351E-07	4.316E-07	4.464E-07	5.525E-07	1.096E-06	2.215E-06
1.00E 01	1.22E 01	3.130E-06	3.122E-06	3.094E-06	3.103E-06	3.311E-06	3.813E-06	4.675E-06	5.860E-06
8.19E 00	1.00E 01	3.735E-06	3.768E-06	4.071E-06	4.318E-06	4.759E-06	5.605E-06	7.061E-06	9.215E-06
6.36E 00	8.19E 00	9.637E-06	9.673E-06	1.032E-05	1.128E-05	1.296E-05	1.558E-05	1.926E-05	2.409E-05
4.97E 00	6.36E 00	2.856E-05	2.865E-05	3.025E-05	3.251E-05	3.625E-05	4.143E-05	4.814E-05	5.659E-05
4.07E 00	4.97E 00	6.024E-05	6.051E-05	6.378E-05	6.899E-05	7.732E-05	8.695E-05	9.840E-05	1.125E-04
3.01E 00	4.07E 00	1.148E-04	1.151E-04	1.161E-04	1.184E-04	1.223E-04	1.286E-04	1.377E-04	1.485E-04
2.35E 00	3.01E 00	1.638E-04	1.647E-04	1.666E-04	1.698E-04	1.752E-04	1.829E-04	1.932E-04	2.064E-04
1.83E 00	2.35E 00	2.298E-04	2.307E-04	2.349E-04	2.431E-04	2.556E-04	2.724E-04	2.932E-04	3.184E-04
1.11E 00	1.83E 00	4.020E-04	4.033E-04	4.090E-04	4.200E-04	4.367E-04	4.591E-04	4.831E-04	5.081E-04
5.50E 01	1.11E 00	1.066E-03	1.066E-03	1.081E-03	1.110E-03	1.153E-03	1.212E-03	1.289E-03	1.388E-03
1.11E 01	5.50E 01	3.046E-03	3.046E-03	3.077E-03	3.136E-03	3.220E-03	3.333E-03	3.473E-03	3.645E-03
3.35E 02	1.11E 01	2.966E-02	2.966E-02	2.985E-02	3.021E-02	3.071E-02	3.137E-02	3.217E-02	3.311E-02
5.83E 04	3.35E 02	2.924E-02	2.924E-02	2.935E-02	2.966E-02	3.008E-02	3.056E-02	3.117E-02	3.188E-02
1.01E 04	5.83E 04	1.943E 00	1.943E 00	1.955E 00	1.973E 00	1.997E 00	2.029E 00	2.067E 00	2.111E 00
2.90E 05	1.01E 04	8.958E 00	8.958E 00	9.010E 00	9.073E 00	9.146E 00	9.236E 00	9.340E 00	9.458E 00
1.07E 05	2.90E 05	2.743E 01	2.746E 01	2.759E 01	2.782E 01	2.815E 01	2.857E 01	2.908E 01	2.967E 01
3.06E 06	1.07E 05	7.769E 01	7.772E 01	7.813E 01	7.878E 01	7.969E 01	8.087E 01	8.228E 01	8.390E 01
1.12E 06	3.06E 06	2.170E 02	2.177E 02	2.182E 02	2.199E 02	2.224E 02	2.257E 02	2.295E 02	2.339E 02
4.14E 07	1.12E 06	4.934E 02	4.939E 02	5.000E 02	5.000E 02	5.056E 02	5.128E 02	5.213E 02	5.312E 02
0.0	4.14E 07	7.479E 02	7.487E 02	7.519E 02	7.576E 02	7.655E 02	7.755E 02	7.872E 02	8.005E 02
1.22E 01	0.0950	0.2816	0.4580	0.6179	0.7550	0.8656	0.9446	0.9894	1.0000
1.22E 01	1.50E 01	5.753E-06	5.753E-06	5.753E-06	5.753E-06	5.753E-06	5.753E-06	5.753E-06	5.753E-06
1.00E 01	1.22E 01	8.997E-06	8.997E-06	8.997E-06	8.997E-06	8.997E-06	8.997E-06	8.997E-06	8.997E-06
8.19E 00	1.00E 01	1.208E-05	1.208E-05	1.208E-05	1.208E-05	1.208E-05	1.208E-05	1.208E-05	1.208E-05
6.36E 00	8.19E 00	3.041E-05	3.041E-05	3.041E-05	3.041E-05	3.041E-05	3.041E-05	3.041E-05	3.041E-05
4.97E 00	6.36E 00	8.353E-05	8.353E-05	8.353E-05	8.353E-05	8.353E-05	8.353E-05	8.353E-05	8.353E-05
4.07E 00	4.97E 00	1.114E-04	1.114E-04	1.114E-04	1.114E-04	1.114E-04	1.114E-04	1.114E-04	1.114E-04
3.01E 00	4.07E 00	1.073E-04	1.073E-04	1.073E-04	1.073E-04	1.073E-04	1.073E-04	1.073E-04	1.073E-04
2.46E 00	3.01E 00	2.595E-04	2.595E-04	2.595E-04	2.595E-04	2.595E-04	2.595E-04	2.595E-04	2.595E-04
2.35E 00	2.46E 00	4.755E-04	4.755E-04	4.755E-04	4.755E-04	4.755E-04	4.755E-04	4.755E-04	4.755E-04
1.83E 00	2.35E 00	5.168E-04	5.168E-04	5.168E-04	5.168E-04	5.168E-04	5.168E-04	5.168E-04	5.168E-04
1.11E 00	1.83E 00	7.257E-04	7.257E-04	7.257E-04	7.257E-04	7.257E-04	7.257E-04	7.257E-04	7.257E-04
5.50E 01	1.11E 00	1.849E-03	1.849E-03	1.849E-03	1.849E-03	1.849E-03	1.849E-03	1.849E-03	1.849E-03
3.35E 02	5.50E 01	4.077E-03	4.077E-03	4.077E-03	4.077E-03	4.077E-03	4.077E-03	4.077E-03	4.077E-03
5.83E 04	3.35E 02	3.654E-02	3.654E-02	3.654E-02	3.654E-02	3.654E-02	3.654E-02	3.654E-02	3.654E-02
1.01E 04	5.83E 04	3.350E-02	3.350E-02	3.350E-02	3.350E-02	3.350E-02	3.350E-02	3.350E-02	3.350E-02
2.90E 05	1.01E 04	2.212E 00	2.212E 00	2.212E 00	2.212E 00	2.212E 00	2.212E 00	2.212E 00	2.212E 00
1.07E 05	2.90E 05	3.101E 01	3.101E 01	3.101E 01	3.101E 01	3.101E 01	3.101E 01	3.101E 01	3.101E 01
3.06E 06	1.07E 05	8.957E 01	8.957E 01	8.957E 01	8.957E 01	8.957E 01	8.957E 01	8.957E 01	8.957E 01
1.12E 06	3.06E 06	2.440E 02	2.440E 02	2.440E 02	2.440E 02	2.440E 02	2.440E 02	2.440E 02	2.440E 02
4.14E 07	1.12E 06	5.536E 02	5.536E 02	5.536E 02	5.536E 02	5.536E 02	5.536E 02	5.536E 02	5.536E 02
0.0	4.14E 07	8.312E 02	8.312E 02	8.312E 02	8.312E 02	8.312E 02	8.312E 02	8.312E 02	8.312E 02

12.20 TO 15.00 MEV NEUTRON SOURCE

4 P1 R\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	-4.340E-08	-2.947E-08	1.225E-08	6.565E-08	8.468E-08	9.295E-08	1.233E-07	2.371E-07	4.610E-07
1.00E 01--1.22E 01	8.140E-07	6.147E-07	6.167E-07	6.204E-07	6.340E-07	6.790E-07	7.841E-07	9.694E-07	1.232E-06
8.19E 00--1.00E 01	8.223E-07	8.334E-07	8.737E-07	9.311E-07	9.992E-07	1.112E-06	1.328E-06	1.710E-06	2.282E-06
6.36E 00--8.19E 00	2.604E-06	2.616E-06	2.675E-06	2.822E-06	3.115E-06	3.627E-06	4.417E-06	5.525E-06	6.980E-06
4.97E 00--6.36E 00	8.656E-06	8.656E-06	8.803E-06	9.174E-06	9.884E-06	1.102E-05	1.262E-05	1.469E-05	1.729E-05
4.07E 00--4.97E 00	1.847E-05	1.855E-05	1.890E-05	1.954E-05	2.050E-05	2.181E-05	2.358E-05	2.601E-05	2.939E-05
3.01E 00--4.07E 00	2.211E-05	2.213E-05	2.220E-05	2.238E-05	2.275E-05	2.341E-05	2.449E-05	2.619E-05	2.873E-05
2.46E 00--3.01E 00	3.418E-05	3.426E-05	3.461E-05	3.534E-05	3.657E-05	3.858E-05	4.173E-05	4.653E-05	5.371E-05
2.35E 00--2.46E 00	4.930E-05	4.960E-05	5.089E-05	5.344E-05	5.712E-05	6.262E-05	7.035E-05	8.116E-05	9.628E-05
1.83E 00--2.35E 00	7.198E-05	7.230E-05	7.368E-05	7.633E-05	8.039E-05	8.623E-05	9.426E-05	1.052E-04	1.198E-04
1.11E 00--1.83E 00	1.287E-04	1.292E-04	1.310E-04	1.346E-04	1.400E-04	1.475E-04	1.566E-04	1.707E-04	1.873E-04
5.50E 01--1.11E 00	3.511E-04	3.523E-04	3.574E-04	3.670E-04	3.814E-04	4.013E-04	4.273E-04	4.607E-04	5.024E-04
1.11E 01--5.50E 01	1.042E-03	1.044E-03	1.055E-03	1.075E-03	1.105E-03	1.144E-03	1.193E-03	1.253E-03	1.323E-03
3.35E 02--1.11E 01	1.043E-02	1.044E-02	1.051E-02	1.064E-02	1.082E-02	1.106E-02	1.135E-02	1.168E-02	1.206E-02
5.83E 04--3.35E 02	1.036E-02	1.037E-02	1.043E-02	1.053E-02	1.067E-02	1.085E-02	1.107E-02	1.133E-02	1.161E-02
1.01E 04--5.83E 04	6.935E-01	6.943E-01	6.978E-01	7.041E-01	7.131E-01	7.247E-01	7.386E-01	7.547E-01	7.724E-01
2.90E 05--1.01E 04	3.209E 00	3.213E 00	3.228E 00	3.256E 00	3.296E 00	3.348E 00	3.409E 00	3.480E 00	3.558E 00
1.07E 05--2.90E 05	9.856E 00	9.867E 00	9.914E 00	1.000E 01	1.012E 01	1.028E 01	1.046E 01	1.068E 01	1.092E 01
3.06E 06--1.07E 05	2.802E 01	2.805E 01	2.818E 01	2.842E 01	2.876E 01	2.919E 01	2.971E 01	3.031E 01	3.097E 01
1.12E 06--3.06E 06	7.847E 01	7.855E 01	7.892E 01	7.957E 01	8.050E 01	8.169E 01	8.312E 01	8.476E 01	8.657E 01
4.14E 07--1.12E 06	1.789E 02	1.791E 02	1.799E 02	1.814E 02	1.835E 02	1.861E 02	1.893E 02	1.930E 02	1.970E 02
0.0 --4.14E 07	2.720E 02	2.723E 02	2.735E 02	2.756E 02	2.786E 02	2.823E 02	2.866E 02	2.916E 02	2.971E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	7.789E-07	1.177E-06	1.771E-06	3.002E-06	5.883E-06	1.238E-05	2.622E-05	6.216E-05	4.099E-05
1.00E 01--1.22E 01	1.556E-06	1.962E-06	2.598E-06	3.873E-06	6.605E-06	1.225E-05	2.331E-05	4.572E-05	4.519E-05
8.19E 00--1.00E 01	3.050E-06	4.092E-06	5.763E-06	8.984E-06	1.562E-05	2.906E-05	5.539E-05	1.085E-04	1.016E-04
6.36E 00--8.19E 00	8.899E-06	1.168E-05	1.627E-05	2.455E-05	3.970E-05	6.885E-05	1.138E-04	1.952E-04	2.416E-04
4.97E 00--6.36E 00	2.072E-05	2.568E-05	3.343E-05	4.600E-05	6.628E-05	9.824E-05	1.467E-04	2.191E-04	4.175E-04
4.07E 00--4.97E 00	3.427E-05	4.147E-05	5.223E-05	6.830E-05	9.185E-05	1.253E-04	1.700E-04	2.233E-04	6.082E-04
3.01E 00--4.07E 00	3.244E-05	3.770E-05	4.498E-05	5.471E-05	6.714E-05	8.211E-05	9.833E-05	1.125E-04	4.964E-04
2.46E 00--3.01E 00	6.430E-05	7.995E-05	1.027E-04	1.263E-04	1.857E-04	2.384E-04	3.637E-04	5.117E-04	1.202E-03
2.35E 00--2.46E 00	1.178E-04	1.493E-04	1.968E-04	2.708E-04	3.885E-04	5.801E-04	8.972E-04	1.437E-03	2.469E-03
1.83E 00--2.35E 00	1.392E-04	1.648E-04	2.088E-04	2.995E-04	4.396E-04	6.519E-04	9.746E-04	1.435E-03	2.093E-03
1.11E 00--1.83E 00	2.080E-04	2.333E-04	2.638E-04	2.995E-04	3.396E-04	3.816E-04	4.204E-04	4.78E-04	2.801E-03
5.50E 01--1.11E 00	5.539E-04	6.163E-04	6.902E-04	7.754E-04	8.689E-04	9.505E-04	1.052E-03	1.112E-03	7.363E-03
1.11E 01--5.50E 01	1.404E-03	1.494E-03	1.591E-03	1.692E-03	1.790E-03	1.880E-03	1.951E-03	1.994E-03	1.775E-02
3.35E 02--1.11E 01	1.248E-02	1.291E-02	1.336E-02	1.379E-02	1.419E-02	1.453E-02	1.478E-02	1.493E-02	1.559E-01
5.83E 04--3.35E 02	1.191E-02	1.223E-02	1.255E-02	1.285E-02	1.312E-02	1.335E-02	1.352E-02	1.361E-02	1.488E-01
1.01E 04--5.83E 04	7.915E-01	8.111E-01	8.307E-01	8.494E-01	8.666E-01	8.801E-01	8.905E-01	8.964E-01	9.882E 00
2.90E 05--1.01E 04	3.642E 00	3.728E 00	3.814E 00	3.895E 00	3.968E 00	4.029E 00	4.074E 00	4.100E 00	4.547E 00
1.07E 05--2.90E 05	1.117E 01	1.143E 01	1.169E 01	1.194E 01	1.216E 01	1.235E 01	1.256E 01	1.266E 01	1.395E 02
3.06E 06--1.07E 05	3.168E 01	3.241E 01	3.313E 01	3.381E 01	3.442E 01	3.494E 01	3.531E 01	3.553E 01	3.956E 02
1.12E 06--3.06E 06	8.850E 01	9.048E 01	9.245E 01	9.432E 01	9.598E 01	9.737E 01	9.840E 01	9.898E 01	1.105E 03
4.14E 07--1.12E 06	2.013E 02	2.058E 02	2.101E 02	2.143E 02	2.180E 02	2.211E 02	2.234E 02	2.247E 02	2.514E 03
0.0 --4.14E 07	3.031E 02	3.092E 02	3.153E 02	3.211E 02	3.262E 02	3.303E 02	3.333E 02	3.349E 02	3.787E 03

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 75-C METERS

(GAMMAS/H-CV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0994	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0619	ANGLE 7 MU=0.0450	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
8.00E 00--1.00E 01	1.768E-04	1.778E-04	1.820E-04	1.900E-04	2.016E-04	2.172E-04	2.381E-04	2.664E-04	3.053E-04
6.50E 00--8.00E 00	8.648E-04	8.706E-04	8.930E-04	9.340E-04	9.937E-04	1.071E-03	1.174E-03	1.312E-03	1.503E-03
5.00E 00--6.50E 00	1.821E-03	1.835E-03	1.888E-03	1.985E-03	2.115E-03	2.279E-03	2.489E-03	2.769E-03	3.156E-03
4.00E 00--5.00E 00	1.406E-03	1.423E-03	1.482E-03	1.584E-03	1.709E-03	1.857E-03	2.027E-03	2.257E-03	2.578E-03
3.00E 00--4.00E 00	9.118E-04	9.249E-04	9.720E-04	1.050E-03	1.142E-03	1.242E-03	1.357E-03	1.509E-03	1.724E-03
2.50E 00--3.00E 00	3.230E-03	3.230E-03	3.324E-03	3.492E-03	3.718E-03	4.003E-03	4.372E-03	4.870E-03	5.557E-03
2.00E 00--2.50E 00	1.565E-03	1.577E-03	1.621E-03	1.701E-03	1.806E-03	1.938E-03	2.110E-03	2.343E-03	2.663E-03
1.66E 00--2.00E 00	3.042E-03	3.052E-03	3.095E-03	3.187E-03	3.341E-03	3.575E-03	3.910E-03	4.371E-03	4.994E-03
1.33E 00--1.66E 00	4.256E-03	4.268E-03	4.34E-03	4.446E-03	4.656E-03	4.982E-03	5.449E-03	6.092E-03	6.959E-03
1.00E 00--1.33E 00	2.830E-03	2.822E-03	2.866E-03	2.816E-03	2.905E-03	3.111E-03	3.446E-03	3.907E-03	4.510E-03
8.00E 01--1.00E 00	1.374E-03	1.362E-03	1.37E-03	1.304E-03	1.345E-03	1.476E-03	1.692E-03	1.974E-03	2.333E-03
6.00E 01--8.00E 00	4.686E-03	4.755E-03	5.008E-03	5.431E-03	5.933E-03	6.478E-03	7.108E-03	7.952E-03	9.201E-03
4.00E 01--6.00E 00	7.188E-03	7.231E-03	7.393E-03	7.694E-03	8.129E-03	8.749E-03	9.666E-03	1.102E-02	1.295E-02
3.00E 01--4.00E 00	9.275E-03	9.286E-03	9.392E-03	9.781E-03	1.068E-02	1.224E-02	1.443E-02	1.710E-02	1.999E-02
2.00E 01--3.00E 00	3.422E-02	3.438E-02	3.495E-02	3.594E-02	3.710E-02	3.830E-02	3.948E-02	4.071E-02	4.215E-02
1.00E 01--2.00E 00	7.084E-02	7.091E-02	7.119E-02	7.178E-02	7.269E-02	7.398E-02	7.571E-02	7.795E-02	8.074E-02
5.00E 02--1.00E 01	1.349E-01	1.350E-01	1.355E-01	1.365E-01	1.379E-01	1.398E-01	1.422E-01	1.449E-01	1.482E-01
2.00E 02--5.00E 00	3.678E-02	3.680E-02	3.687E-02	3.700E-02	3.719E-02	3.744E-02	3.775E-02	3.810E-02	3.850E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08566	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00--1.00E 01	3.466E-04	6.251E-04	6.001E-04	7.514E-04	8.348E-04	1.585E-03	2.880E-03	7.650E-03	8.006E-03
6.50E 00--8.00E 00	1.706E-03	3.074E-03	2.948E-03	3.687E-03	4.090E-03	7.761E-03	1.408E-02	3.730E-02	3.925E-02
5.00E 00--6.50E 00	3.573E-03	6.375E-03	4.891E-03	6.156E-03	7.082E-02	1.578E-02	2.561E-02	7.053E-02	7.812E-02
4.00E 00--5.00E 00	2.928E-03	5.296E-03	4.026E-03	5.082E-03	9.031E-03	1.327E-02	2.172E-02	5.981E-02	6.498E-02
3.00E 00--4.00E 00	1.963E-03	2.578E-03	3.033E-03	3.558E-03	5.946E-03	8.721E-03	1.420E-02	3.732E-02	4.214E-02
2.50E 00--3.00E 00	6.291E-03	1.116E-02	1.066E-02	1.328E-02	1.476E-02	2.761E-02	4.911E-02	1.257E-01	1.403E-01
2.00E 00--2.50E 00	4.380E-03	3.447E-03	4.576E-03	5.822E-03	8.079E-03	1.165E-02	2.068E-02	4.383E-02	6.162E-02
1.66E 00--2.00E 00	5.653E-03	1.014E-02	7.774E-03	9.883E-03	1.743E-02	2.560E-02	4.082E-02	1.063E-01	1.237E-01
1.33E 00--1.66E 00	7.872E-03	1.428E-02	1.094E-02	1.382E-02	2.453E-02	3.598E-02	5.707E-02	1.483E-01	1.731E-01
1.00E 00--1.33E 00	5.161E-03	6.865E-03	8.464E-03	1.032E-02	1.729E-02	2.536E-02	3.914E-02	9.227E-02	1.144E-01
8.00E 01--1.00E 00	2.817E-03	3.633E-03	5.135E-03	7.156E-03	1.003E-02	1.397E-02	1.906E-02	2.671E-02	3.874E-02
6.00E 01--8.00E 00	1.074E-02	1.461E-02	1.793E-02	2.115E-02	3.380E-02	4.704E-02	6.891E-02	1.630E-01	2.222E-01
4.00E 01--6.00E 00	1.546E-02	1.873E-02	2.313E-02	2.774E-02	3.348E-02	4.133E-02	5.206E-02	6.932E-02	2.354E-01
3.00E 01--4.00E 00	2.289E-02	2.591E-02	2.946E-02	3.301E-02	3.746E-02	4.339E-02	5.095E-02	6.257E-02	2.949E-01
2.00E 01--3.00E 00	4.393E-02	4.643E-02	5.030E-02	5.475E-02	6.072E-02	6.915E-02	8.062E-02	9.912E-02	5.927E-01
1.00E 01--2.00E 00	8.414E-02	8.825E-02	9.313E-02	9.857E-02	1.047E-01	1.113E-01	1.189E-01	1.266E-01	1.085E 00
5.00E 02--1.00E 01	1.518E-01	1.558E-01	1.601E-01	1.645E-01	1.688E-01	1.729E-01	1.789E-01	1.879E-01	1.910E 00
2.00E 02--5.00E 00	3.895E-02	3.942E-02	3.991E-02	4.038E-02	4.083E-02	4.125E-02	4.153E-02	4.172E-02	4.887E-01

(GAMMAS/NEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=1.0000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
6.50E 00--8.00E 01	1.873E-04	1.888E-04	1.949E-04	2.060E-04	2.209E-04	2.399E-04	2.648E-04	2.987E-04	3.464E-04
5.00E 00--6.50E 00	9.086E-04	9.178E-04	9.523E-04	1.013E-03	1.091E-03	1.186E-03	1.307E-03	1.471E-03	1.704E-03
4.00E 00--5.00E 00	2.045E-03	2.071E-03	2.165E-03	2.324E-03	2.516E-03	2.732E-03	2.992E-03	3.343E-03	3.845E-03
3.00E 00--4.00E 00	1.456E-03	1.490E-03	1.611E-03	1.801E-03	2.002E-03	2.192E-03	2.393E-03	2.663E-03	3.072E-03
2.50E 00--3.00E 00	9.722E-04	1.002E-03	1.107E-03	1.267E-03	1.428E-03	1.568E-03	1.706E-03	1.894E-03	2.188E-03
2.00E 00--2.50E 00	3.461E-03	3.504E-03	3.661E-03	3.922E-03	4.233E-03	4.594E-03	5.016E-03	5.611E-03	6.470E-03
1.66E 00--2.00E 00	2.020E-03	2.042E-03	2.124E-03	2.261E-03	2.425E-03	2.618E-03	2.867E-03	3.217E-03	3.718E-03
1.33E 00--1.66E 00	3.566E-03	3.572E-03	3.603E-03	3.687E-03	3.855E-03	4.144E-03	4.584E-03	5.199E-03	6.027E-03
1.00E 00--1.33E 00	4.979E-03	4.979E-03	4.994E-03	5.073E-03	5.279E-03	5.671E-03	6.282E-03	7.130E-03	8.260E-03
8.00E 01--1.00E 00	3.528E-03	3.492E-03	3.383E-03	3.283E-03	3.136E-03	2.96E-03	2.742E-03	2.484E-03	2.180E-02
6.00E 01--8.00E 01	2.072E-03	2.045E-03	1.977E-03	1.916E-03	1.810E-03	1.688E-03	1.547E-03	1.399E-03	1.245E-03
4.00E 01--6.00E 01	4.998E-03	5.134E-03	5.627E-03	6.399E-03	7.202E-03	8.148E-03	9.287E-03	1.079E-02	1.255E-02
3.00E 01--4.00E 01	1.179E-02	1.188E-02	1.220E-02	1.278E-02	1.362E-02	1.488E-02	1.687E-02	1.999E-02	2.455E-02
2.00E 01--3.00E 01	1.593E-02	1.597E-02	1.626E-02	1.733E-02	1.974E-02	2.383E-02	2.944E-02	3.601E-02	4.286E-02
1.00E 01--2.00E 01	6.861E-02	6.896E-02	7.028E-02	7.246E-02	7.494E-02	7.740E-02	7.977E-02	8.228E-02	8.540E-02
5.00E 02--1.00E 01	1.722E-01	1.724E-01	1.734E-01	1.754E-01	1.785E-01	1.828E-01	1.884E-01	1.956E-01	2.047E-01
2.00E 02--5.00E 02	3.905E-01	3.910E-01	3.931E-01	3.971E-01	4.029E-01	4.106E-01	4.203E-01	4.320E-01	4.458E-01
	1.125E-01	1.126E-01	1.129E-01	1.134E-01	1.142E-01	1.153E-01	1.166E-01	1.181E-01	1.199E-01

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU=0.6950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.042E-02
6.50E 00--8.00E 00	5.114E-04	4.214E-04	7.506E-04	7.783E-04	1.452E-03	2.050E-03	4.176E-03	1.253E-02	5.081E-02
5.00E 00--6.50E 00	2.514E-03	2.070E-03	3.682E-03	3.800E-03	7.084E-03	9.967E-03	2.028E-02	6.043E-02	1.063E-01
4.00E 00--5.00E 00	5.528E-03	4.680E-03	7.865E-03	8.754E-03	1.386E-02	2.186E-02	3.892E-02	1.164E-01	8.764E-02
3.00E 00--4.00E 00	4.482E-03	3.776E-03	6.419E-03	7.142E-03	1.140E-02	1.832E-02	3.311E-02	9.832E-02	6.140E-02
2.50E 00--3.00E 00	3.151E-03	3.375E-03	3.160E-03	6.764E-03	1.336E-02	1.336E-02	2.387E-02	6.398E-02	1.806E-01
2.00E 00--2.50E 00	9.416E-03	7.797E-03	1.359E-02	1.389E-02	2.551E-02	3.545E-02	7.023E-02	1.924E-01	9.518E-02
1.66E 00--2.00E 00	3.450E-03	5.597E-03	7.444E-03	7.715E-03	1.452E-02	1.951E-02	3.696E-02	8.173E-02	1.664E-01
1.33E 00--1.66E 00	8.674E-03	7.295E-03	1.244E-02	1.424E-02	2.277E-02	3.644E-02	6.222E-02	1.640E-01	2.280E-01
1.00E 00--1.33E 00	1.194E-02	9.971E-03	1.721E-02	1.978E-02	3.154E-02	5.033E-02	8.461E-02	2.206E-01	1.707E-01
8.00E 01--1.00E 00	4.665E-03	7.450E-03	1.027E-02	2.051E-02	2.300E-02	4.190E-02	6.711E-02	1.468E-01	1.255E-01
6.00E 01--8.00E 01	1.795E-02	2.092E-02	2.143E-02	4.337E-02	4.337E-02	7.312E-02	1.052E-01	2.216E-01	3.202E-01
5.00E 01--6.00E 01	2.941E-02	3.917E-02	4.678E-02	5.804E-02	7.155E-02	8.808E-02	1.152E-01	1.555E-01	4.737E-01
4.00E 01--5.00E 01	4.865E-02	5.683E-02	6.291E-02	7.216E-02	8.353E-02	9.753E-02	1.179E-01	1.433E-01	6.330E-01
3.00E 01--4.00E 01	8.818E-02	9.656E-02	1.032E-01	1.143E-01	1.291E-01	1.465E-01	1.737E-01	2.103E-01	1.220E 00
2.00E 01--3.00E 01	2.156E-01	2.291E-01	2.444E-01	2.630E-01	2.837E-01	3.070E-01	3.324E-01	3.563E-01	2.805E 00
1.00E 01--2.00E 01	4.616E-01	4.793E-01	4.986E-01	5.194E-01	5.404E-01	5.609E-01	5.790E-01	5.915E-01	5.836E 00
5.00E 02--1.00E 01	1.219E-01	1.240E-01	1.263E-01	1.286E-01	1.307E-01	1.327E-01	1.342E-01	1.352E-01	1.531E 00

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E-00--1.00E-01	1.730E-04	1.748E-04	1.817E-04	1.937E-04	2.092E-04	2.280E-04	2.522E-04	2.855E-04	3.333E-04
6.50E-00--8.00E-01	8.332E-04	8.440E-04	8.842E-04	9.520E-04	1.034E-03	1.128E-03	1.244E-03	1.404E-03	1.637E-03
5.00E-00--6.50E-01	1.944E-03	1.976E-03	2.092E-03	2.281E-03	2.493E-03	2.714E-03	2.969E-03	3.318E-03	3.836E-03
4.00E-00--5.00E-01	1.305E-03	1.349E-03	1.505E-03	1.742E-03	1.974E-03	2.168E-03	2.350E-03	2.604E-03	3.020E-03
3.00E-00--4.00E-01	8.801E-04	9.202E-04	1.059E-03	1.266E-03	1.457E-03	1.601E-03	1.726E-03	1.906E-03	2.246E-03
2.50E-00--3.00E-01	3.226E-03	3.277E-03	3.464E-03	3.763E-03	4.093E-03	4.432E-03	4.850E-03	5.342E-03	6.000E-03
2.00E-00--2.50E-01	2.038E-03	2.065E-03	2.163E-03	2.321E-03	2.501E-03	2.703E-03	2.964E-03	3.343E-03	3.898E-03
1.66E-00--2.00E-01	3.504E-03	3.504E-03	3.515E-03	3.572E-03	3.723E-03	4.013E-03	4.476E-03	5.128E-03	5.995E-03
1.33E-00--1.66E-01	4.910E-03	4.895E-03	4.864E-03	4.880E-03	5.046E-03	5.441E-03	6.091E-03	6.992E-03	8.161E-03
1.00E-00--1.33E-01	3.584E-03	3.527E-03	3.349E-03	3.166E-03	3.183E-03	3.505E-03	4.110E-03	4.901E-03	5.842E-03
8.00E-01--1.00E-01	2.182E-03	2.149E-03	2.056E-03	2.003E-03	2.134E-03	2.495E-03	3.036E-03	3.699E-03	4.565E-03
6.00E-01--8.00E-01	4.569E-03	4.741E-03	5.360E-03	6.300E-03	7.212E-03	7.970E-03	8.725E-03	9.917E-03	1.215E-02
4.00E-01--6.00E-01	1.518E-02	1.328E-02	1.367E-02	1.436E-02	1.536E-02	1.691E-02	1.945E-02	2.353E-02	2.954E-02
3.00E-01--4.00E-01	1.819E-02	1.824E-02	1.865E-02	2.013E-02	2.347E-02	2.905E-02	3.659E-02	4.524E-02	5.402E-02
2.00E-01--3.00E-01	8.436E-02	8.480E-02	8.647E-02	8.919E-02	9.221E-02	9.514E-02	9.791E-02	1.009E-01	1.048E-01
1.00E-01--2.00E-01	2.258E-01	2.261E-01	2.277E-01	2.306E-01	2.351E-01	2.413E-01	2.495E-01	2.599E-01	2.729E-01
5.00E-02--1.00E-01	5.524E-01	5.532E-01	5.568E-01	5.629E-01	5.721E-01	5.844E-01	5.998E-01	6.186E-01	6.408E-01
2.00E-02--5.00E-02	1.629E-01	1.630E-01	1.635E-01	1.644E-01	1.657E-01	1.673E-01	1.694E-01	1.719E-01	1.748E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	3.545E-04	5.480E-04	6.151E-04	9.352E-04	1.304E-03	2.275E-03	4.557E-03	1.455E-02	1.082E-02
6.50E-00--8.00E-01	1.739E-03	2.689E-03	3.009E-03	4.560E-03	6.331E-03	1.022E-02	2.201E-02	6.966E-02	5.249E-02
5.00E-00--6.50E-01	4.118E-03	6.130E-03	6.867E-03	1.009E-02	1.375E-02	2.324E-02	4.454E-02	1.333E-01	1.121E-01
4.00E-00--5.00E-01	3.260E-03	4.949E-03	5.535E-03	8.175E-03	1.125E-02	1.945E-02	3.802E-02	1.124E-01	9.213E-02
3.00E-00--4.00E-01	2.437E-03	3.623E-03	4.089E-03	5.987E-03	8.556E-03	1.442E-02	2.791E-02	7.557E-02	6.664E-02
2.50E-00--3.00E-01	6.681E-03	1.015E-02	1.123E-02	1.674E-02	2.305E-02	3.943E-02	7.549E-02	2.142E-01	1.854E-01
2.00E-00--2.50E-01	5.185E-03	5.324E-03	7.775E-03	9.685E-03	1.513E-02	2.398E-02	4.410E-02	9.924E-02	1.087E-01
1.66E-00--2.00E-01	6.361E-03	9.545E-03	1.083E-02	1.647E-02	2.335E-02	3.944E-02	7.136E-02	1.801E-01	1.746E-01
1.33E-00--1.66E-01	8.603E-03	1.306E-02	1.488E-02	2.284E-02	3.231E-02	5.390E-02	9.563E-02	2.364E-01	2.367E-01
1.00E-00--1.33E-01	6.383E-03	9.874E-03	1.237E-02	1.979E-02	2.946E-02	4.748E-02	7.867E-02	1.645E-01	1.875E-01
8.00E-01--1.00E-01	6.267E-03	8.352E-03	1.328E-02	4.001E-02	3.041E-02	4.368E-02	6.192E-02	8.820E-02	1.585E-01
4.00E-01--8.00E-01	1.441E-02	2.341E-02	2.935E-02	4.274E-02	5.625E-02	7.942E-02	1.171E-01	2.279E-01	3.465E-01
3.00E-01--6.00E-01	3.833E-02	4.689E-02	5.944E-02	7.172E-02	8.847E-02	1.092E-01	1.411E-01	1.913E-01	5.793E-01
2.00E-01--3.00E-01	6.290E-02	7.007E-02	7.972E-02	9.002E-02	1.049E-01	1.230E-01	1.475E-01	1.791E-01	7.918E-01
1.00E-01--2.00E-01	1.111E-01	1.172E-01	1.289E-01	1.414E-01	1.598E-01	1.818E-01	2.128E-01	2.550E-01	1.505E-00
5.00E-02--1.00E-01	2.889E-01	3.079E-01	3.306E-01	3.567E-01	3.865E-01	4.195E-01	4.545E-01	4.874E-01	3.763E-00
2.00E-02--5.00E-02	6.664E-01	6.953E-01	7.272E-01	7.611E-01	7.960E-01	8.299E-01	8.597E-01	8.807E-01	8.441E-00
	1.780E-01	1.815E-01	1.852E-01	1.889E-01	1.924E-01	1.956E-01	1.982E-01	1.997E-01	2.236E-00



## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.297E-04	1.317E-04	1.393E-04	1.517E-04	1.661E-04	1.818E-04	1.818E-04	2.010E-04	2.082E-04	2.694E-04
6.115E-04	6.243E-04	6.704E-04	7.433E-04	8.216E-04	8.994E-04	9.884E-04	9.884E-04	1.116E-03	1.315E-03
1.528E-03	1.568E-03	1.711E-03	1.930E-03	2.149E-03	2.342E-03	2.543E-03	2.543E-03	2.833E-03	3.305E-03
8.819E-04	9.413E-04	1.147E-03	1.442E-03	1.694E-03	1.852E-03	1.964E-03	1.964E-03	2.146E-03	2.519E-03
5.990E-04	6.541E-04	8.436E-04	1.110E-03	1.326E-03	1.445E-03	1.515E-03	1.515E-03	1.648E-03	1.947E-03
2.447E-03	2.508E-03	2.725E-03	3.049E-03	3.363E-03	3.642E-03	3.952E-03	3.952E-03	4.428E-03	5.203E-03
1.767E-03	1.797E-03	1.906E-03	2.072E-03	2.243E-03	2.422E-03	2.658E-03	2.658E-03	3.027E-03	3.593E-03
2.980E-03	2.967E-03	2.931E-03	2.519E-03	3.011E-03	3.267E-03	3.714E-03	3.714E-03	4.346E-03	5.157E-03
4.231E-03	4.188E-03	4.054E-03	3.931E-03	3.958E-03	4.359E-03	5.014E-03	5.014E-03	5.896E-03	6.968E-03
3.228E-03	3.138E-03	2.849E-03	2.533E-03	2.492E-03	2.848E-03	3.528E-03	3.528E-03	4.354E-03	5.253E-03
1.949E-03	1.915E-03	1.828E-03	1.801E-03	1.988E-03	2.415E-03	3.002E-03	3.002E-03	3.693E-03	4.651E-03
3.236E-03	3.454E-03	4.227E-03	5.340E-03	6.299E-03	6.948E-03	7.521E-03	7.521E-03	8.670E-03	1.125E-02
1.346E-02	1.357E-02	1.399E-02	1.473E-02	1.584E-02	1.769E-02	2.093E-02	2.093E-02	2.628E-02	3.418E-02
1.900E-02	1.908E-02	1.971E-02	2.185E-02	2.652E-02	3.412E-02	4.409E-02	4.409E-02	5.511E-02	6.574E-02
9.97E-02	1.005E-01	1.025E-01	1.056E-01	1.089E-01	1.120E-01	1.148E-01	1.148E-01	1.179E-01	1.223E-01
2.859E-01	2.867E-01	2.887E-01	2.930E-01	2.994E-01	3.083E-01	3.199E-01	3.199E-01	3.346E-01	3.529E-01
7.748E-01	7.761E-01	7.814E-01	7.916E-01	8.063E-01	8.259E-01	8.508E-01	8.508E-01	8.812E-01	9.173E-01
2.355E-01	2.357E-01	2.365E-01	2.379E-01	2.399E-01	2.426E-01	2.460E-01	2.460E-01	2.500E-01	2.547E-01

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.038E-02
1.667E-03	3.408E-04	4.149E-04	5.723E-04	7.902E-04	1.230E-03	2.137E-03	4.682E-03	1.645E-02	1.038E-02
4.133E-03	1.667E-03	2.027E-03	3.823E-03	5.926E-03	8.26E-03	1.027E-02	2.240E-02	7.757E-02	4.984E-02
3.00E 00--5.00E 00	4.133E-03	5.003E-03	6.698E-03	8.968E-03	1.347E-02	2.260E-02	4.683E-02	1.488E-01	1.098E-01
2.50E 00--3.00E 00	3.00E 00--4.00E 00	3.097E-03	5.547E-03	7.125E-03	1.089E-02	1.892E-02	4.038E-02	1.252E-01	8.94E-02
6.561E-03	2.506E-03	4.126E-03	5.423E-03	8.621E-03	1.528E-02	3.178E-02	3.178E-02	8.750E-02	6.870E-02
4.277E-03	7.843E-03	1.056E-02	1.423E-02	2.190E-02	3.734E-02	7.615E-02	7.615E-02	2.222E-01	1.734E-01
6.405E-03	5.616E-03	7.136E-03	1.028E-02	1.589E-02	2.748E-02	5.181E-02	5.181E-02	1.176E-01	1.149E-01
8.638E-03	7.625E-03	1.054E-02	1.502E-02	2.37E-02	4.039E-02	7.576E-02	7.576E-02	1.857E-01	1.698E-01
6.644E-03	1.031E-02	1.451E-02	2.090E-02	3.317E-02	5.452E-02	9.869E-02	9.869E-02	2.532E-01	2.264E-01
6.330E-03	8.600E-03	1.327E-02	2.085E-02	3.891E-02	5.623E-02	8.816E-02	8.816E-02	1.708E-01	1.966E-01
1.647E-02	9.915E-03	1.593E-02	2.561E-02	4.683E-02	8.567E-02	1.205E-01	1.205E-01	2.065E-01	3.584E-01
4.435E-02	2.315E-02	3.413E-02	4.683E-02	6.397E-02	1.037E-01	1.271E-01	1.271E-01	2.136E-01	6.697E-01
7.515E-02	5.715E-02	7.066E-02	8.613E-02	1.037E-01	1.244E-01	1.628E-01	1.628E-01	2.048E-01	9.401E-01
1.286E-01	8.450E-02	9.433E-02	1.074E-01	1.244E-01	1.462E-01	1.725E-01	1.725E-01	2.048E-01	1.760E 00
3.753E-01	1.385E-01	1.508E-01	1.673E-01	1.872E-01	2.122E-01	2.431E-01	2.431E-01	2.822E-01	4.890E 00
1.00E 01--2.00E 01	4.021E-01	4.336E-01	4.699E-01	5.104E-01	5.542E-01	5.986E-01	5.986E-01	6.376E-01	1.217E 01
5.00E 02--1.00E 01	1.007E 00	1.007E 00	1.007E 00	1.116E 00	1.225E 00	1.277E 00	1.277E 00	1.310E 00	1.217E 01
2.00E 02--5.00E 02	2.656E-01	2.715E-01	2.715E-01	2.775E-01	2.832E-01	2.883E-01	2.922E-01	2.947E-01	3.264E 00

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0000	ANGLE 3 MU=0.0000	ANGLE 4 MU=0.0000	ANGLE 5 MU=0.0000	ANGLE 6 MU=0.0000	ANGLE 7 MU=0.0000	ANGLE 8 MU=0.0000	ANGLE 9 MU=0.0000
8.00E-01--1.00E-01	8.853E-05	9.062E-05	9.817E-05	1.099E-04	1.221E-04	1.338E-04	1.471E-04	1.667E-04	1.986E-04
6.50E-01--8.00E-02	4.041E-04	4.174E-04	4.648E-04	5.356E-04	6.034E-04	6.800E-04	7.179E-04	8.066E-04	9.599E-04
5.00E-01--6.50E-02	1.086E-03	1.130E-03	1.283E-03	1.506E-03	1.706E-03	1.853E-03	1.985E-03	2.195E-03	2.583E-03
4.00E-01--5.00E-02	4.934E-04	5.609E-04	7.904E-04	1.104E-03	1.341E-03	1.449E-03	1.486E-03	1.589E-03	1.893E-03
3.00E-01--4.00E-02	3.899E-04	3.926E-04	6.081E-04	8.970E-04	1.105E-03	1.184E-03	1.195E-03	1.272E-03	1.533E-03
2.50E-01--3.00E-02	1.680E-03	1.742E-03	2.272E-03	1.653E-03	2.538E-03	2.732E-03	2.929E-03	3.276E-03	3.904E-03
2.00E-01--2.50E-02	1.377E-03	1.406E-03	1.507E-03	1.653E-03	2.115E-03	1.926E-03	2.113E-03	2.430E-03	2.932E-03
1.66E-01--2.00E-02	2.347E-03	2.322E-03	2.444E-03	2.169E-03	2.201E-03	2.410E-03	2.808E-03	3.360E-03	4.031E-03
1.33E-01--1.66E-02	3.392E-03	3.325E-03	3.109E-03	2.874E-03	2.857E-03	3.171E-03	3.783E-03	4.563E-03	5.423E-03
1.00E-01--1.33E-02	2.673E-03	2.564E-03	1.815E-03	1.822E-03	1.745E-03	2.100E-03	2.769E-03	3.513E-03	4.236E-03
8.00E-01--1.00E-01	1.500E-03	1.475E-03	1.415E-03	1.428E-03	1.641E-03	2.049E-03	2.562E-03	3.146E-03	4.037E-03
6.00E-01--8.00E-02	1.944E-03	2.180E-03	3.008E-03	4.148E-03	5.026E-03	5.484E-03	5.829E-03	6.836E-03	9.485E-03
4.00E-01--6.00E-02	1.209E-02	1.218E-02	1.255E-02	1.320E-02	1.424E-02	1.614E-02	1.962E-02	2.545E-02	3.400E-02
3.00E-01--4.00E-02	1.717E-02	1.728E-02	1.805E-02	2.055E-02	2.583E-02	3.421E-02	4.491E-02	5.632E-02	6.683E-02
2.00E-01--3.00E-02	1.011E-01	1.011E-01	1.030E-01	1.060E-01	1.089E-01	1.115E-01	1.137E-01	1.163E-01	1.203E-01
1.00E-01--2.00E-02	1.006E-01	2.953E-01	2.978E-01	3.026E-01	3.096E-01	3.193E-01	3.320E-01	3.480E-01	3.679E-01
5.00E-02--1.00E-01	8.507E-01	8.522E-01	8.584E-01	8.703E-01	8.876E-01	9.108E-01	9.401E-01	9.760E-01	1.019E-00
2.00E-02--5.00E-02	2.631E-01	2.633E-01	2.642E-01	2.658E-01	2.682E-01	2.714E-01	2.753E-01	2.801E-01	2.855E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4590	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9854	SCALAR FLUX
8.00E-01--1.00E-01	2.480E-04	3.245E-04	4.401E-04	6.377E-04	1.015E-03	1.864E-03	4.311E-03	1.650E-02	9.069E-03
6.50E-01--8.00E-02	1.203E-03	1.577E-03	2.128E-03	3.059E-03	4.842E-03	8.878E-03	2.043E-02	7.665E-02	4.304E-02
5.00E-01--6.50E-02	3.207E-03	4.133E-03	5.431E-03	7.533E-03	1.148E-02	2.023E-02	4.385E-02	1.473E-01	9.716E-02
4.00E-01--5.00E-02	2.443E-03	3.233E-03	4.249E-03	5.871E-03	9.174E-03	1.704E-02	3.826E-02	1.236E-01	7.921E-02
3.00E-01--4.00E-02	2.001E-03	2.642E-03	3.447E-03	4.790E-03	7.708E-03	1.467E-02	3.200E-02	9.921E-02	6.350E-02
2.50E-01--3.00E-02	4.859E-03	6.239E-03	8.182E-03	1.136E-02	1.826E-02	3.293E-02	6.921E-02	2.049E-01	1.470E-01
2.00E-01--2.50E-02	3.653E-03	4.622E-03	6.190E-03	9.080E-03	1.499E-02	2.713E-02	5.289E-02	1.196E-01	1.074E-01
1.66E-01--2.00E-02	4.860E-03	6.173E-03	8.490E-03	1.303E-02	2.165E-02	3.809E-02	7.179E-02	1.705E-01	1.492E-01
1.33E-01--1.66E-02	6.476E-03	8.318E-03	1.175E-02	1.835E-02	3.010E-02	5.095E-02	9.117E-02	2.053E-01	1.961E-01
1.00E-01--1.33E-02	5.244E-03	7.443E-03	1.053E-02	2.027E-02	3.359E-02	5.383E-02	8.594E-02	1.558E-01	1.830E-01
8.00E-01--1.00E-01	5.898E-03	9.691E-03	1.653E-02	2.706E-02	4.143E-02	5.928E-02	8.099E-02	1.103E-01	1.955E-01
6.00E-01--8.00E-02	1.455E-02	2.261E-02	3.344E-02	4.673E-02	6.259E-02	8.224E-02	1.100E-01	1.700E-01	3.313E-01
4.00E-01--6.00E-02	4.507E-02	5.777E-02	7.145E-02	8.581E-02	1.022E-01	1.231E-01	1.529E-01	1.970E-01	6.553E-01
3.00E-01--4.00E-02	7.584E-02	8.401E-02	9.337E-02	1.058E-01	1.225E-01	1.430E-01	1.644E-01	1.921E-01	9.312E-01
2.00E-01--3.00E-02	1.268E-01	1.361E-01	1.487E-01	1.643E-01	1.832E-01	2.056E-01	2.319E-01	2.615E-01	1.730E-00
1.00E-01--2.00E-02	3.921E-01	4.209E-01	4.546E-01	4.930E-01	5.354E-01	5.800E-01	6.235E-01	6.588E-01	5.099E-00
5.00E-02--1.00E-01	1.069E-00	1.125E-00	1.187E-00	1.254E-00	1.322E-00	1.387E-00	1.442E-00	1.479E-00	1.357E-01
2.00E-02--5.00E-02	2.917E-01	2.983E-01	3.053E-01	3.123E-01	3.189E-01	3.247E-01	3.292E-01	3.319E-01	3.663E-00

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E-00--1.00E-01	5.892E-05	5.892E-05	6.611E-05	7.575E-05	8.669E-05	9.474E-05	1.029E-04	1.160E-04	1.394E-04
6.50E-00--8.00E-01	2.468E-04	2.599E-04	3.056E-04	3.711E-04	4.271E-04	4.646E-04	4.964E-04	5.521E-04	6.638E-04
5.00E-00--6.50E-01	7.232E-04	7.668E-04	9.178E-04	1.130E-03	1.304E-03	1.405E-03	1.477E-03	1.615E-03	1.917E-03
4.00E-00--5.00E-01	2.053E-04	2.774E-04	5.102E-04	8.112E-04	1.023E-03	1.091E-03	1.070E-03	1.065E-03	1.342E-03
3.00E-00--4.00E-01	1.229E-04	1.916E-04	4.127E-04	6.942E-04	8.828E-04	9.294E-04	8.934E-04	9.213E-04	1.138E-03
2.50E-00--3.00E-01	1.078E-03	1.137E-03	1.343E-03	1.622E-03	1.835E-03	1.954E-03	2.059E-03	2.295E-03	2.782E-03
2.00E-00--2.50E-01	1.018E-03	1.042E-03	1.126E-03	1.243E-03	1.343E-03	1.436E-03	1.576E-03	1.832E-03	2.246E-03
1.56E-00--2.00E-01	1.790E-03	1.757E-03	1.648E-03	1.527E-03	1.515E-03	1.680E-03	2.023E-03	2.483E-03	2.998E-03
1.33E-00--1.66E-01	2.640E-03	2.558E-03	2.290E-03	1.985E-03	1.913E-03	2.183E-03	2.734E-03	3.388E-03	4.019E-03
1.00E-00--1.33E-01	2.130E-03	2.015E-03	1.641E-03	1.226E-03	1.136E-03	1.470E-03	2.022E-03	2.697E-03	3.215E-03
8.00E-01--1.00E-00	1.038E-03	1.038E-03	1.013E-03	1.065E-03	1.279E-03	1.628E-03	2.022E-03	2.458E-03	3.223E-03
6.00E-01--8.00E-01	9.535E-04	1.189E-03	2.008E-03	3.088E-03	3.835E-03	4.111E-03	4.255E-03	5.099E-03	7.651E-03
4.00E-01--6.00E-01	1.021E-02	1.028E-02	1.055E-02	1.107E-02	1.197E-02	1.377E-02	1.718E-02	2.291E-02	3.124E-02
3.00E-01--4.00E-01	1.442E-02	1.455E-02	1.540E-02	1.799E-02	2.330E-02	3.157E-02	4.185E-02	5.246E-02	6.181E-02
2.00E-01--3.00E-01	9.287E-02	9.333E-02	9.501E-02	9.749E-02	9.981E-02	1.016E-01	1.031E-01	1.049E-01	1.082E-01
1.00E-01--2.00E-01	2.728E-01	2.734E-01	2.758E-01	2.804E-01	2.872E-01	2.965E-01	3.086E-01	3.238E-01	3.426E-01
5.00E-02--1.00E-01	8.199E-01	8.214E-01	8.277E-01	8.396E-01	8.568E-01	8.800E-01	9.094E-01	9.453E-01	9.881E-01
2.00E-02--5.00E-02	2.561E-01	2.563E-01	2.572E-01	2.588E-01	2.612E-01	2.644E-01	2.683E-01	2.730E-01	2.784E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	1.777E-04	2.360E-04	3.261E-04	4.815E-04	7.943E-04	1.534E-03	3.766E-03	1.553E-02	7.590E-03
6.50E-00--8.00E-01	8.537E-04	1.138E-03	1.563E-03	2.284E-03	3.745E-03	7.235E-03	1.767E-02	7.108E-02	3.553E-02
5.00E-00--6.50E-01	2.437E-03	3.184E-03	4.229E-03	5.912E-03	9.253E-03	1.704E-02	3.878E-02	1.366E-01	8.172E-02
4.00E-00--5.00E-01	1.814E-03	2.459E-03	3.253E-03	4.502E-03	7.293E-03	1.444E-02	3.430E-02	1.144E-01	6.651E-02
3.00E-00--4.00E-01	1.558E-03	2.099E-03	2.744E-03	3.838E-03	6.479E-03	1.319E-02	3.019E-02	8.477E-02	5.555E-02
2.00E-00--3.00E-01	3.550E-03	4.596E-03	6.097E-03	8.784E-03	1.452E-02	2.756E-02	5.987E-02	1.778E-01	1.189E-01
1.66E-00--2.00E-01	2.823E-03	3.617E-03	4.914E-03	7.517E-03	1.310E-02	2.489E-02	4.979E-02	1.119E-01	9.372E-02
1.33E-00--1.66E-01	3.610E-03	4.586E-03	6.552E-03	1.062E-02	1.863E-02	3.388E-02	6.423E-02	1.470E-01	1.248E-01
1.00E-00--1.33E-01	4.765E-03	6.161E-03	9.188E-03	1.521E-02	2.611E-02	4.978E-02	7.759E-02	1.703E-01	1.620E-01
8.00E-01--1.00E-00	3.997E-03	5.942E-03	1.021E-02	1.837E-02	3.114E-02	5.627E-02	7.523E-02	1.324E-01	1.600E-01
6.00E-01--8.00E-01	5.011E-03	8.828E-03	1.565E-02	2.603E-02	3.980E-02	5.627E-02	7.523E-02	9.923E-02	1.809E-01
4.00E-01--6.00E-01	1.269E-02	2.047E-02	3.074E-02	4.298E-02	5.691E-02	7.307E-02	9.413E-02	1.338E-01	2.887E-01
3.00E-01--4.00E-01	4.177E-02	5.357E-02	6.569E-02	7.794E-02	9.143E-02	1.086E-01	1.325E-01	1.659E-01	5.875E-01
2.00E-01--3.00E-01	6.936E-02	7.605E-02	8.385E-02	9.468E-02	1.093E-01	1.268E-01	1.454E-01	1.637E-01	8.395E-01
1.00E-01--2.00E-01	1.138E-01	1.222E-01	1.332E-01	1.468E-01	1.628E-01	1.811E-01	2.016E-01	2.224E-01	1.552E-00
5.00E-02--1.00E-01	3.654E-01	3.925E-01	4.239E-01	4.594E-01	4.980E-01	5.378E-01	5.752E-01	6.038E-01	4.740E-00
2.00E-02--5.00E-02	1.038E-00	1.094E-00	1.157E-00	1.223E-00	1.290E-00	1.354E-00	1.407E-00	1.442E-00	1.318E-01
	2.845E-01	2.911E-01	2.980E-01	3.048E-01	3.113E-01	3.170E-01	3.213E-01	3.239E-01	3.572E-00

4 PI R\*\*2 FLUENCE AT 600.C METERS

12.20 TO 15.00 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E-00--1.00E-01	3.468E-05	3.657E-05	4.321E-05	5.264E-05	6.578E-05	8.198E-05	1.019E-05	7.828E-05	9.491E-05
6.50E-00--8.00E-01	1.384E-04	1.508E-04	1.930E-04	2.518E-04	3.296E-04	4.319E-04	5.677E-04	7.435E-04	9.433E-04
5.00E-00--6.50E-01	4.545E-04	4.956E-04	6.384E-04	8.319E-04	1.074E-03	1.381E-03	1.767E-03	2.259E-03	2.813E-03
4.00E-00--5.00E-01	1.459E-05	1.583E-05	2.049E-05	2.635E-05	3.381E-05	4.319E-05	5.577E-05	7.177E-05	9.133E-05
3.00E-00--4.00E-01	1.535E-05	1.659E-05	2.145E-05	2.731E-05	3.477E-05	4.415E-05	5.673E-05	7.273E-05	9.229E-05
2.50E-00--3.00E-01	6.517E-04	7.033E-04	8.895E-04	1.131E-03	1.425E-03	1.781E-03	2.221E-03	2.811E-03	3.511E-03
2.00E-00--2.50E-01	7.599E-04	8.115E-04	1.015E-03	1.257E-03	1.551E-03	1.907E-03	2.347E-03	2.937E-03	3.637E-03
1.66E-00--2.00E-01	1.349E-03	1.411E-03	1.745E-03	2.131E-03	2.567E-03	3.053E-03	3.589E-03	4.275E-03	5.011E-03
1.33E-00--1.66E-01	2.030E-03	2.101E-03	2.537E-03	3.023E-03	3.509E-03	4.095E-03	4.681E-03	5.367E-03	6.103E-03
1.00E-00--1.33E-01	1.666E-03	1.737E-03	2.123E-03	2.509E-03	2.895E-03	3.281E-03	3.667E-03	4.253E-03	4.939E-03
8.00E-01--1.00E-00	6.846E-04	7.232E-04	8.865E-04	1.079E-03	1.271E-03	1.503E-03	1.735E-03	2.121E-03	2.507E-03
6.00E-01--8.00E-01	2.780E-04	2.851E-04	3.437E-04	4.023E-04	4.609E-04	5.195E-04	5.781E-04	6.367E-04	6.953E-04
4.00E-01--6.00E-01	8.336E-03	8.382E-03	8.565E-03	8.937E-03	9.688E-03	1.033E-02	1.098E-02	1.163E-02	1.228E-02
3.00E-01--4.00E-01	1.163E-02	1.176E-02	1.261E-02	1.316E-02	1.371E-02	1.426E-02	1.481E-02	1.536E-02	1.591E-02
2.00E-01--3.00E-01	8.140E-02	8.178E-02	8.315E-02	8.510E-02	8.705E-02	8.899E-02	9.094E-02	9.289E-02	9.484E-02
1.00E-01--2.00E-01	2.370E-01	2.376E-01	2.397E-01	2.439E-01	2.481E-01	2.523E-01	2.565E-01	2.607E-01	2.649E-01
5.00E-02--1.00E-01	7.309E-01	7.323E-01	7.385E-01	7.488E-01	7.645E-01	7.856E-01	8.122E-01	8.449E-01	8.837E-01
2.00E-02--5.00E-02	2.295E-01	2.297E-01	2.305E-01	2.320E-01	2.341E-01	2.370E-01	2.405E-01	2.448E-01	2.497E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	1.235E-04	1.671E-04	2.338E-04	3.510E-04	5.984E-04	1.218E-03	3.180E-03	1.406E-02	6.199E-03
6.50E-00--8.00E-01	5.861E-04	7.986E-04	1.109E-03	1.641E-03	2.783E-03	5.683E-03	1.477E-02	6.340E-02	2.859E-02
5.00E-00--6.50E-01	1.798E-03	2.389E-03	3.187E-03	4.475E-03	7.169E-03	1.382E-02	3.307E-02	1.216E-01	6.671E-02
4.00E-00--5.00E-01	1.309E-03	1.821E-03	2.403E-03	3.314E-03	5.563E-03	1.180E-02	2.968E-02	1.017E-01	5.422E-02
3.00E-00--4.00E-01	1.179E-03	1.618E-03	2.099E-03	2.944E-03	5.223E-03	1.140E-02	2.728E-02	7.703E-02	4.698E-02
2.50E-00--3.00E-01	2.511E-03	3.287E-03	4.378E-03	6.444E-03	1.118E-02	2.239E-02	5.021E-02	1.486E-01	9.360E-02
2.00E-00--2.50E-01	2.101E-03	2.699E-03	3.725E-03	5.950E-03	1.097E-02	2.179E-02	4.456E-02	9.939E-02	7.856E-02
1.66E-00--2.00E-01	2.573E-03	3.273E-03	4.869E-03	8.406E-03	1.554E-02	2.909E-02	5.532E-02	1.222E-01	1.012E-01
1.33E-00--1.66E-01	3.355E-03	4.395E-03	6.960E-03	1.230E-02	2.198E-02	3.835E-02	6.710E-02	1.363E-01	1.300E-01
1.00E-00--1.33E-01	2.908E-03	4.592E-03	8.600E-03	1.603E-02	2.758E-02	4.380E-02	6.664E-02	1.077E-01	1.346E-01
8.00E-01--1.00E-00	4.091E-03	7.684E-03	1.407E-02	2.361E-02	3.590E-02	5.005E-02	6.542E-02	8.359E-02	1.581E-01
6.00E-01--8.00E-01	1.073E-02	1.789E-02	2.710E-02	3.768E-02	4.918E-02	6.184E-02	7.720E-02	1.026E-01	2.423E-01
4.00E-01--6.00E-01	3.678E-02	4.700E-02	5.710E-02	6.687E-02	7.734E-02	9.061E-02	1.089E-01	1.329E-01	5.002E-01
3.00E-01--4.00E-01	5.996E-02	6.504E-02	8.005E-02	9.207E-02	1.061E-01	1.201E-01	1.323E-01	1.339E-01	7.163E-01
2.00E-01--3.00E-01	9.686E-02	1.038E-01	1.299E-01	1.640E-01	2.077E-01	2.509E-01	3.021E-01	3.543E-01	4.119E-01
1.00E-01--2.00E-01	3.184E-01	3.418E-01	3.688E-01	3.991E-01	4.315E-01	4.644E-01	4.945E-01	5.163E-01	5.199E-01
5.00E-02--1.00E-01	9.288E-01	9.798E-01	1.036E-01	1.095E-01	1.155E-01	1.212E-01	1.258E-01	1.288E-01	1.178E-01
2.00E-02--5.00E-02	2.551E-01	2.610E-01	2.672E-01	2.733E-01	2.790E-01	2.840E-01	2.878E-01	2.901E-01	3.202E-01

12.20 TO 15.00 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 500.G METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950	
4.503E-06	5.932E-06	1.058E-05	1.622E-05	2.053E-05	2.147E-05	2.057E-05	2.132E-05	2.703E-05	
6.50E 00--8.00E 00	1.020E-05	1.502E-05	3.830E-05	1.005E-04	1.004E-04	8.767E-05	8.737E-05	1.157E-04	
5.00E 00--6.50E 00	6.078E-05	1.906E-04	3.155E-04	3.925E-04	3.989E-04	3.652E-04	3.662E-04	4.668E-04	
4.00E 00--5.00E 00	-1.124E-04	2.321E-04	2.368E-04	3.231E-04	2.992E-04	1.966E-04	1.487E-04	2.386E-04	
3.00E 00--4.00E 00	-9.516E-05	3.412E-04	2.372E-04	3.201E-04	2.931E-04	1.888E-04	1.541E-04	2.603E-04	
2.50E 00--3.00E 00	1.128E-04	2.265E-04	3.614E-04	4.289E-04	4.170E-04	3.808E-04	4.142E-04	5.727E-04	
2.00E 00--2.50E 00	2.636E-04	2.832E-04	3.035E-04	3.126E-04	3.236E-04	3.650E-04	4.594E-04	5.998E-04	
1.66E 00--2.00E 00	5.874E-04	4.240E-04	2.711E-04	2.089E-04	2.851E-04	4.652E-04	6.501E-04	7.566E-04	
1.33E 00--1.66E 00	8.486E-04	5.931E-04	2.820E-04	2.051E-04	3.855E-04	6.483E-04	7.784E-04	7.866E-04	
1.00E 00--1.33E 00	6.837E-04	3.808E-04	1.216E-04	1.231E-04	2.853E-04	5.805E-04	7.784E-04	9.122E-04	
8.00E-01--1.00E 00	1.006E-04	1.880E-04	2.677E-04	4.039E-04	5.105E-04	5.467E-04	5.881E-04	9.122E-04	
6.00E-01--8.00E-01	-4.408E-04	-2.673E-04	8.747E-04	1.137E-03	1.051E-03	8.697E-04	1.243E-03	2.830E-03	
4.00E-01--6.00E-01	4.158E-03	4.165E-03	4.255E-03	4.630E-03	5.641E-03	7.703E-03	1.111E-02	1.579E-02	
3.00E-01--4.00E-01	5.422E-03	6.195E-03	7.931E-03	1.125E-02	1.601E-02	2.147E-02	2.651E-02	3.021E-02	
2.00E-01--3.00E-01	4.655E-02	4.732E-02	4.804E-02	4.841E-02	4.832E-02	4.796E-02	4.788E-02	4.867E-02	
1.00E-01--2.00E-01	1.287E-01	1.302E-01	1.325E-01	1.359E-01	1.404E-01	1.461E-01	1.532E-01	1.619E-01	
5.00E-02--1.00E-01	4.089E-01	4.129E-01	4.190E-01	4.278E-01	4.396E-01	4.544E-01	4.726E-01	4.940E-01	
2.00E-02--5.00E-02	1.286E-01	1.292E-01	1.300E-01	1.312E-01	1.328E-01	1.347E-01	1.370E-01	1.397E-01	

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR
8.00E 00--1.00E 01	MU=0.9950	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950	FLUX
4.503E-06	5.932E-06	1.058E-05	1.622E-05	2.053E-05	2.147E-05	2.057E-05	2.132E-05	2.703E-05	3.170E-03
6.50E 00--8.00E 00	1.756E-04	2.573E-04	3.568E-04	5.273E-04	9.836E-04	9.836E-04	7.684E-03	3.950E-02	1.391E-02
5.00E 00--6.50E 00	6.747E-04	9.435E-04	1.243E-03	1.709E-03	2.910E-03	2.910E-03	1.813E-02	7.487E-02	3.317E-02
4.00E 00--5.00E 00	4.645E-04	7.122E-04	8.808E-04	1.115E-03	2.118E-03	2.118E-03	1.707E-02	6.225E-02	2.706E-02
3.00E 00--4.00E 00	8.247E-04	6.956E-04	8.335E-04	1.119E-03	2.375E-03	2.375E-03	1.736E-02	6.942E-02	2.559E-02
2.50E 00--3.00E 00	7.578E-04	9.515E-04	1.377E-03	2.587E-03	5.681E-03	5.681E-03	2.689E-02	7.724E-02	4.247E-02
2.00E 00--2.50E 00	8.044E-04	9.987E-04	1.786E-03	3.874E-03	8.256E-03	8.256E-03	3.100E-02	5.816E-02	4.083E-02
1.66E 00--2.00E 00	1.010E-03	1.360E-03	2.818E-03	6.127E-03	1.199E-02	1.199E-02	3.541E-02	6.193E-02	4.960E-02
1.33E 00--1.66E 00	9.506E-04	1.946E-03	4.578E-03	9.401E-03	1.642E-02	1.642E-02	3.560E-02	6.269E-02	6.213E-02
1.00E 00--1.33E 00	2.010E-03	4.454E-03	8.644E-03	1.453E-02	2.149E-02	2.149E-02	3.484E-02	5.016E-02	7.063E-02
8.00E-01--1.00E 00	5.972E-03	1.052E-02	1.590E-02	2.145E-02	2.674E-02	2.674E-02	3.704E-02	4.343E-02	8.188E-02
6.00E-01--8.00E-01	4.00E-01--6.00E-01	2.664E-02	3.139E-02	3.541E-02	3.943E-02	4.656E-02	5.186E-02	6.004E-02	1.263E-01
3.00E-01--4.00E-01	3.251E-02	3.424E-02	3.673E-02	4.080E-02	4.656E-02	4.656E-02	5.747E-02	6.047E-02	2.841E-01
2.00E-01--3.00E-01	5.072E-02	5.400E-02	5.825E-02	6.311E-02	6.845E-02	6.845E-02	7.981E-02	8.432E-02	3.773E-01
1.00E-01--2.00E-01	1.742E-01	1.842E-01	1.977E-01	2.125E-01	2.278E-01	2.278E-01	2.556E-01	2.641E-01	6.895E-01
5.00E-02--1.00E-01	5.187E-01	5.463E-01	5.764E-01	6.019E-01	6.390E-01	6.390E-01	7.050E-01	7.050E-01	2.209E 00
2.00E-02--5.00E-02	1.426E-01	1.458E-01	1.490E-01	1.522E-01	1.552E-01	1.552E-01	1.597E-01	1.608E-01	6.562E 00
									1.789E 00

4 PI R\*2 FLUENCE AT 1200.0 METERS

12.20 TO 15.00 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=0.10000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
6.50E 00--8.00E 00	-1.902E-06	-8.398E-07	1.695E-05	5.663E-06	7.498E-06	7.066E-06	5.422E-06	4.739E-06	6.934E-06
5.00E 00--6.50E 00	-2.074E-05	-1.420E-05	2.198E-06	2.609E-05	3.437E-05	3.137E-05	1.658E-05	1.517E-05	2.684E-05
3.50E 00--5.00E 00	-3.150E-05	-1.019E-05	4.202E-05	1.218E-04	1.569E-04	1.462E-04	1.105E-04	9.721E-05	1.438E-04
4.00E 00--5.00E 00	-1.446E-04	-1.105E-04	-5.293E-06	7.119E-05	1.472E-04	1.092E-04	1.360E-05	6.079E-06	5.757E-05
3.00E 00--4.00E 00	-1.270E-04	-9.431E-05	2.437E-06	8.835E-05	1.389E-04	1.064E-04	2.500E-05	2.657E-05	7.838E-05
2.50E 00--3.00E 00	-3.257E-05	-1.117E-05	4.332E-05	1.191E-04	1.412E-04	1.044E-04	8.471E-05	9.167E-05	1.645E-04
2.00E 00--2.50E 00	9.649E-05	9.662E-05	9.587E-05	9.133E-05	8.465E-05	8.598E-05	1.081E-04	1.422E-04	2.084E-04
1.66E 00--2.00E 00	2.743E-04	2.478E-04	1.504E-04	3.766E-05	1.318E-05	5.626E-05	2.459E-04	2.459E-04	2.579E-04
1.33E 00--1.66E 00	4.352E-04	3.861E-04	1.877E-04	2.613E-05	-1.072E-05	7.161E-05	2.419E-04	3.534E-04	3.147E-04
1.00E 00--1.33E 00	3.461E-04	3.031E-04	1.229E-04	-9.542E-06	-1.505E-05	7.443E-05	2.328E-04	2.873E-04	2.271E-04
8.00E 01--1.00E 00	-6.314E-05	-4.621E-05	9.454E-06	9.883E-05	1.700E-04	2.060E-04	1.681E-04	1.362E-04	3.083E-04
6.00E 01--8.00E 01	-3.975E-04	-2.980E-04	9.350E-06	3.097E-04	4.716E-04	3.372E-04	2.274E-04	3.872E-04	1.372E-03
4.00E 01--6.00E 01	1.990E-03	1.977E-03	1.936E-03	1.931E-03	2.107E-03	2.571E-03	3.837E-03	5.710E-03	8.174E-03
3.00E 01--4.00E 01	2.388E-03	2.466E-03	2.878E-03	3.908E-03	5.746E-03	8.296E-03	1.108E-02	1.347E-02	1.500E-02
2.00E 01--3.00E 01	2.377E-02	2.383E-02	2.405E-02	2.424E-02	2.418E-02	2.583E-02	2.334E-02	2.302E-02	2.319E-02
1.00E 01--2.00E 01	6.203E-02	6.218E-02	6.280E-02	6.392E-02	6.553E-02	6.767E-02	7.035E-02	7.364E-02	7.759E-02
5.00E 02--1.00E 01	1.973E-01	1.977E-01	1.992E-01	2.021E-01	2.062E-01	2.117E-01	2.186E-01	2.270E-01	2.368E-01
2.00E 02--5.00E 02	6.167E-02	6.172E-02	6.193E-02	6.231E-02	6.286E-02	6.359E-02	6.448E-02	6.553E-02	6.673E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.576E-03
6.50E 00--8.00E 00	1.219E-05	1.889E-05	2.576E-05	3.711E-05	7.459E-05	2.178E-04	8.393E-04	5.418E-03	6.567E-03
5.00E 00--6.50E 00	5.311E-05	8.575E-05	1.087E-04	1.452E-04	2.970E-04	9.397E-04	3.667E-03	2.220E-02	1.555E-02
4.00E 00--5.00E 00	2.477E-04	3.650E-04	4.563E-04	5.790E-04	1.044E-03	2.790E-03	9.048E-03	4.124E-02	1.590E-02
3.00E 00--4.00E 00	1.796E-04	2.897E-04	3.048E-04	2.978E-04	6.889E-04	2.597E-03	8.983E-03	3.409E-02	1.294E-02
2.50E 00--3.00E 00	2.016E-04	2.949E-04	2.979E-04	3.467E-04	9.690E-04	3.324E-03	9.795E-03	2.780E-02	1.876E-02
2.00E 00--2.50E 00	2.704E-04	3.497E-04	4.177E-04	7.197E-04	1.906E-03	5.274E-03	1.348E-02	3.689E-02	1.957E-02
1.66E 00--2.00E 00	2.472E-04	2.830E-04	4.412E-04	1.054E-03	2.752E-03	6.577E-03	1.423E-02	2.955E-02	2.313E-02
1.33E 00--1.66E 00	2.061E-04	2.320E-04	6.178E-04	1.768E-03	4.179E-03	8.487E-03	1.567E-02	2.864E-02	2.842E-02
1.00E 00--1.33E 00	2.143E-04	3.491E-04	1.146E-03	3.008E-03	6.172E-03	1.074E-02	1.699E-02	2.677E-02	3.405E-02
8.00E 01--1.00E 00	2.642E-04	8.186E-04	2.337E-03	5.031E-03	8.688E-03	1.276E-02	1.676E-02	2.111E-02	4.349E-02
6.00E 01--8.00E 01	9.590E-04	2.375E-03	4.893E-03	7.755E-03	1.107E-02	1.399E-02	1.603E-02	1.735E-02	6.037E-02
4.00E 01--6.00E 01	3.151E-03	5.590E-03	8.283E-03	1.077E-02	1.283E-02	1.457E-02	1.621E-02	1.787E-02	1.264E-01
3.00E 01--4.00E 01	1.088E-02	1.336E-02	1.530E-02	1.671E-02	1.805E-02	1.997E-02	2.272E-02	2.560E-02	1.794E-01
2.00E 01--3.00E 01	1.571E-02	1.616E-02	1.707E-02	1.886E-02	2.1130E-02	2.365E-02	2.517E-02	2.574E-02	3.263E-01
1.00E 01--2.00E 01	2.400E-02	2.539E-02	2.715E-02	2.908E-02	3.111E-02	3.323E-02	3.530E-02	3.686E-02	1.048E 00
5.00E 02--1.00E 01	8.223E-02	8.753E-02	9.343E-02	9.973E-02	1.061E-01	1.122E-01	1.172E-01	1.204E-01	3.120E 00
2.00E 02--5.00E 02	2.480E-01	2.604E-01	2.738E-01	2.876E-01	3.010E-01	3.131E-01	3.227E-01	3.285E-01	8.530E-01
	6.805E-02	6.946E-02	7.090E-02	7.230E-02	7.359E-02	7.470E-02	7.553E-02	7.602E-02	

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8456	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	-2.271E-06	-1.661E-06	-2.556E-08	2.043E-06	2.754E-06	2.680E-06	8.455E-07	7.381E-07	1.517E-06
5.00E 00---6.50E 00	-1.647E-05	-1.282E-05	-1.410E-06	7.054E-06	1.537E-05	1.024E-05	4.185E-07	-1.061E-06	4.286E-06
4.00E 00---5.00E 00	-3.677E-05	-2.519E-05	4.571E-06	4.795E-05	6.230E-05	5.235E-05	2.183E-05	2.232E-05	4.200E-05
3.00E 00---4.00E 00	-8.992E-05	-7.150E-05	-1.370E-05	2.929E-05	6.827E-05	3.192E-05	-7.974E-06	-1.716E-05	1.026E-05
2.00E 00---3.00E 00	-3.379E-05	-6.216E-05	-7.033E-06	3.395E-05	6.847E-05	3.125E-05	-4.260E-06	-6.932E-06	2.386E-05
1.66E 00---2.00E 00	1.350E-04	3.991E-05	4.154E-05	2.455E-05	1.693E-05	3.070E-05	9.579E-06	1.588E-05	5.206E-05
1.33E 00---1.66E 00	2.101E-04	1.819E-04	5.328E-05	-4.069E-06	-2.212E-05	2.802E-06	6.017E-05	1.021E-04	8.902E-05
1.00E 00---1.33E 00	1.570E-04	1.329E-04	4.318E-05	-2.498E-05	-2.643E-05	2.140E-05	9.686E-05	1.453E-04	7.445E-05
8.00E 01---1.00E 00	-6.849E-05	-5.633E-05	-1.309E-05	3.276E-05	8.372E-05	7.904E-05	3.159E-05	1.560E-05	3.724E-05
6.00E 01---8.00E 01	-2.455E-04	-1.928E-04	-2.261E-05	1.178E-04	2.111E-04	9.235E-05	2.642E-05	1.506E-04	6.462E-04
3.00E 01---4.00E 01	1.050E-03	1.096E-03	1.330E-03	1.884E-03	2.836E-03	4.112E-03	5.450E-03	2.828E-03	4.043E-03
2.00E 01---3.00E 01	1.161E-02	1.163E-02	1.170E-02	1.172E-02	1.160E-02	1.132E-02	1.096E-02	6.527E-03	7.128E-03
1.00E 01---2.00E 01	2.886E-02	2.893E-02	2.922E-02	2.974E-02	3.048E-02	3.146E-02	3.266E-02	3.412E-02	3.586E-02
5.00E 02---1.00E 01	9.121E-02	9.137E-02	9.206E-02	9.335E-02	9.518E-02	9.760E-02	1.006E-01	1.043E-01	1.086E-01
2.00E 02---5.00E 02	2.828E-02	2.830E-02	2.839E-02	2.856E-02	2.880E-02	2.912E-02	2.951E-02	2.997E-02	3.049E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	7.827E-04
6.50E 00---8.00E 00	4.113E-06	6.992E-06	8.634E-06	1.037E-05	2.244E-05	8.472E-05	3.986E-04	3.034E-03	7.827E-04
5.00E 00---6.50E 00	1.796E-05	3.155E-05	3.462E-05	3.225E-05	7.533E-05	3.503E-04	1.594E-03	1.184E-02	3.103E-03
4.00E 00---5.00E 00	9.337E-05	1.442E-04	1.631E-04	1.732E-04	3.378E-04	1.152E-03	4.334E-03	2.143E-02	7.141E-03
3.00E 00---4.00E 00	7.604E-05	1.257E-04	1.036E-04	4.547E-05	1.899E-04	1.159E-03	4.549E-03	1.761E-02	6.081E-03
2.00E 00---3.00E 00	8.898E-05	1.265E-04	9.648E-05	7.789E-05	3.772E-04	1.655E-03	5.196E-03	1.457E-02	6.335E-03
1.66E 00---2.00E 00	7.533E-05	1.117E-04	1.075E-04	2.194E-04	8.018E-04	2.523E-03	6.504E-03	1.702E-02	8.366E-03
1.33E 00---1.66E 00	2.422E-05	3.372E-05	2.165E-04	4.365E-04	1.325E-03	3.299E-03	7.093E-03	1.405E-02	9.146E-03
1.00E 00---1.33E 00	2.626E-06	7.782E-05	4.969E-04	8.317E-04	2.090E-03	4.229E-03	7.544E-03	1.275E-02	1.068E-02
8.00E 01---1.00E 00	4.644E-04	1.223E-03	1.180E-03	2.577E-03	3.099E-03	5.239E-03	7.500E-03	1.118E-02	1.293E-02
6.00E 01---8.00E 01	1.556E-03	2.831E-03	2.408E-03	3.885E-03	5.356E-03	6.468E-03	7.009E-03	8.612E-03	1.593E-02
4.00E 01---6.00E 01	5.313E-03	6.397E-03	7.144E-03	7.604E-03	8.035E-03	8.747E-03	9.838E-03	7.420E-03	2.798E-02
3.00E 01---4.00E 01	7.309E-03	7.378E-03	7.708E-03	8.477E-03	9.516E-03	1.042E-02	1.087E-02	1.093E-02	5.664E-02
2.00E 01---3.00E 01	1.103E-02	1.160E-02	1.232E-02	1.307E-02	1.384E-02	1.463E-02	1.542E-02	1.601E-02	8.280E-02
1.00E 01---2.00E 01	3.787E-02	4.015E-02	4.264E-02	4.526E-02	4.787E-02	5.028E-02	5.223E-02	5.344E-02	4.802E-01
5.00E 02---1.00E 01	1.134E-01	1.187E-01	1.244E-01	1.302E-01	1.357E-01	1.406E-01	1.445E-01	1.468E-01	1.427E 00
2.00E 02---5.00E 02	3.105E-02	3.165E-02	3.226E-02	3.285E-02	3.339E-02	3.385E-02	3.419E-02	3.439E-02	3.890E-01

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1800.C METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	-1.575E-06	-1.237E-06	-1.726E-07	6.325E-07	1.393E-06	7.703E-07	1.749E-08	-2.022E-07	3.010E-07
5.00E 00---6.50E 00	-1.002E-05	-8.061E-06	-1.875E-06	2.801E-06	7.071E-06	3.194E-06	-1.352E-06	-2.767E-06	1.339E-06
4.00E 00---5.00E 00	-2.520E-05	-1.917E-05	-8.155E-10	1.489E-05	2.802E-05	1.844E-05	1.313E-06	3.019E-08	1.089E-05
3.00E 00---4.00E 00	-4.950E-05	-4.004E-05	-6.632E-06	1.314E-05	3.230E-05	1.141E-05	-1.034E-05	-1.524E-05	6.503E-06
2.50E 00---3.00E 00	-2.034E-05	-3.511E-05	-6.412E-05	1.496E-05	3.149E-05	1.050E-05	-8.625E-06	-9.941E-06	6.612E-06
2.00E 00---2.50E 00	1.996E-05	1.850E-05	1.302E-05	4.512E-06	1.822E-05	6.849E-06	-2.139E-06	1.348E-06	1.655E-05
1.66E 00---2.00E 00	6.767E-05	5.843E-05	2.241E-05	-9.688E-06	5.416E-07	2.283E-06	9.932E-06	2.181E-05	2.778E-05
1.33E 00---1.66E 00	1.022E-04	8.704E-05	2.948E-05	-1.944E-05	-2.051E-06	1.725E-05	2.110E-05	4.617E-05	2.467E-05
1.00E 00---1.33E 00	7.121E-05	5.928E-05	1.582E-05	-1.734E-05	-1.723E-05	6.848E-06	4.164E-05	6.391E-05	1.649E-05
8.00E 01---1.00E 01	-4.639E-05	-3.894E-05	-1.278E-05	1.408E-05	4.028E-05	3.163E-05	9.198E-07	3.906E-05	-9.555E-07
6.00E 01---8.00E 01	-1.324E-04	-1.058E-04	-1.958E-05	5.161E-05	9.266E-05	2.756E-05	-7.972E-06	-1.031E-05	3.877E-05
4.00E 01---6.00E 01	4.484E-04	4.408E-04	6.159E-04	9.087E-04	4.390E-04	5.916E-04	9.031E-04	5.752E-05	3.170E-04
3.00E 01---4.00E 01	4.667E-04	4.920E-04	6.177E-04	9.039E-04	1.379E-03	1.998E-03	2.626E-03	1.378E-03	1.960E-03
2.00E 01---3.00E 01	5.568E-03	5.575E-03	5.592E-03	5.577E-03	5.482E-03	5.307E-03	5.100E-03	4.947E-03	3.337E-03
1.00E 01---2.00E 01	1.333E-02	1.336E-02	1.349E-02	1.373E-02	1.407E-02	1.451E-02	1.505E-02	1.570E-02	4.922E-03
5.00E 02---1.00E 01	4.179E-02	4.186E-02	4.217E-02	4.273E-02	4.354E-02	4.462E-02	4.595E-02	4.755E-02	1.646E-02
2.00E 02---5.00E 02	1.286E-02	1.287E-02	1.299E-02	1.299E-02	1.310E-02	1.323E-02	1.340E-02	1.360E-02	4.940E-02
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	SCALAR FLUX
6.50E 00---8.00E 00	1.608E-06	2.882E-06	3.018E-06	2.364E-06	5.706E-06	3.255E-05	1.871E-04	1.648E-03	3.910E-04
5.00E 00---6.50E 00	6.250E-06	1.357E-05	1.162E-05	2.475E-06	1.329E-05	1.292E-04	7.764E-04	6.122E-03	1.479E-03
4.00E 00---5.00E 00	3.658E-05	5.853E-05	5.703E-05	4.138E-05	9.402E-05	4.695E-04	2.041E-03	1.076E-02	3.258E-03
3.00E 00---4.00E 00	2.941E-05	5.536E-05	2.780E-05	-1.812E-05	4.840E-05	5.222E-04	2.263E-03	8.791E-03	2.859E-03
2.50E 00---3.00E 00	4.040E-05	5.454E-05	2.086E-05	6.543E-06	1.456E-04	8.126E-04	2.661E-03	7.312E-03	3.049E-03
2.00E 00---2.50E 00	3.539E-05	3.540E-05	2.052E-05	6.468E-05	3.536E-04	1.220E-03	3.203E-03	7.751E-03	3.792E-03
1.66E 00---2.00E 00	2.032E-05	7.739E-06	3.175E-05	1.892E-04	6.429E-04	1.626E-03	3.433E-03	6.468E-03	4.249E-03
1.33E 00---1.66E 00	-1.355E-05	-9.470E-06	8.212E-05	4.029E-04	1.038E-03	2.066E-03	3.549E-03	5.596E-03	4.931E-03
1.00E 00---1.33E 00	-2.537E-05	1.285E-05	2.295E-04	7.413E-04	1.532E-03	2.506E-03	3.549E-03	4.673E-03	5.933E-03
8.00E 01---1.00E 01	1.647E-05	1.700E-04	5.931E-04	1.287E-03	2.119E-03	2.853E-03	3.303E-03	3.514E-03	7.398E-03
6.00E 01---8.00E 01	2.287E-04	6.175E-04	1.199E-03	1.888E-03	2.522E-03	2.929E-03	3.031E-03	2.941E-03	9.537E-03
4.00E 01---6.00E 01	7.976E-04	1.396E-03	1.967E-03	2.392E-03	2.650E-03	2.815E-03	2.981E-03	3.148E-03	1.289E-02
3.00E 01---4.00E 01	3.254E-03	3.009E-03	3.294E-03	3.437E-03	3.571E-03	3.849E-03	4.300E-03	4.742E-03	2.705E-02
2.00E 01---3.00E 01	3.351E-03	3.475E-03	3.475E-03	3.810E-03	4.255E-03	4.610E-03	4.734E-03	4.688E-03	3.801E-02
1.00E 01---2.00E 01	5.047E-03	5.287E-03	5.580E-03	5.876E-03	6.171E-03	6.482E-03	6.794E-03	7.029E-03	6.880E-02
5.00E 02---1.00E 01	1.733E-02	1.831E-02	1.937E-02	2.047E-02	2.154E-02	2.252E-02	2.331E-02	2.378E-02	2.190E-01
2.00E 02---5.00E 02	5.149E-02	5.376E-02	5.615E-02	5.857E-02	6.086E-02	6.288E-02	6.444E-02	6.536E-02	6.467E-01
	1.407E-02	1.432E-02	1.458E-02	1.483E-02	1.505E-02	1.525E-02	1.539E-02	1.547E-02	1.762E-01



12.200 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.0000E 00	7.742E-11	9.251E-11	1.151E-10	1.285E-10	1.345E-10	1.350E-10
-9.8940E-01	7.887E-11	9.400E-11	1.165E-10	1.298E-10	1.356E-10	1.360E-10
-9.4457E-01	8.216E-11	9.760E-11	1.202E-10	1.333E-10	1.388E-10	1.389E-10
-8.6563E-01	8.456E-11	1.002E-10	1.224E-10	1.354E-10	1.413E-10	1.415E-10
-7.5504E-01	8.523E-11	1.014E-10	1.253E-10	1.404E-10	1.464E-10	1.465E-10
-6.1787E-01	8.784E-11	1.046E-10	1.307E-10	1.451E-10	1.515E-10	1.521E-10
-4.5801E-01	9.076E-11	1.085E-10	1.356E-10	1.521E-10	1.600E-10	1.608E-10
-2.8160E-01	9.989E-11	1.192E-10	1.491E-10	1.671E-10	1.748E-10	1.757E-10
-9.5012E-02	1.146E-10	1.366E-10	1.700E-10	1.897E-10	1.981E-10	1.986E-10
9.5012E-02	1.772E-10	1.549E-10	1.930E-10	2.253E-10	2.344E-10	2.288E-10
2.8160E-01	1.681E-10	2.056E-10	2.596E-10	2.582E-10	2.668E-10	2.698E-10
4.5801E-01	2.137E-10	2.210E-10	2.617E-10	3.148E-10	3.254E-10	3.187E-10
6.1787E-01	2.552E-10	2.934E-10	3.652E-10	3.839E-10	3.957E-10	3.955E-10
7.5504E-01	4.324E-10	4.276E-10	4.812E-10	5.337E-10	5.432E-10	5.304E-10
8.6563E-01	6.909E-10	7.404E-10	7.917E-10	8.301E-10	8.365E-10	8.116E-10
9.4457E-01	1.748E-09	1.755E-09	1.747E-09	1.694E-09	1.608E-09	1.495E-09
9.8940E-01	2.122E-08	1.863E-08	1.471E-08	1.188E-08	9.232E-09	7.318E-09
TOTAL	6.519E-09	6.280E-09	6.070E-09	5.810E-09	5.458E-09	5.055E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.0000E 00	1.078E-10	8.836E-11	4.043E-11	1.562E-11	5.451E-12	1.777E-12
-9.8940E-01	1.083E-10	8.872E-11	4.057E-11	1.567E-11	5.468E-12	1.782E-12
-9.4457E-01	1.100E-10	9.004E-11	4.111E-11	1.587E-11	5.538E-12	1.806E-12
-8.6563E-01	1.124E-10	9.206E-11	4.208E-11	1.626E-11	5.674E-12	1.850E-12
-7.5504E-01	1.164E-10	9.529E-11	4.357E-11	1.684E-11	5.877E-12	1.917E-12
-6.1787E-01	1.214E-10	9.958E-11	4.566E-11	1.768E-11	6.169E-12	2.012E-12
-4.5801E-01	1.291E-10	1.060E-10	4.865E-11	1.882E-11	6.569E-12	2.142E-12
-2.8160E-01	1.408E-10	1.155E-10	5.284E-11	2.039E-11	7.107E-12	2.315E-12
-9.5012E-02	1.577E-10	1.288E-10	5.849E-11	2.247E-11	7.809E-12	2.539E-12
9.5012E-02	1.799E-10	1.464E-10	6.583E-11	2.516E-11	8.714E-12	2.827E-12
2.8160E-01	2.083E-10	1.688E-10	7.531E-11	2.863E-11	9.886E-12	3.200E-12
4.5801E-01	2.457E-10	1.986E-10	8.902E-11	3.330E-11	1.145E-11	3.696E-12
6.1787E-01	3.013E-10	2.426E-10	1.064E-10	3.993E-11	1.365E-11	4.383E-12
7.5504E-01	3.957E-10	3.155E-10	1.352E-10	4.900E-11	1.685E-11	5.364E-12
8.6563E-01	5.738E-10	4.483E-10	1.835E-10	6.564E-11	2.170E-11	6.803E-12
9.4457E-01	9.553E-10	7.189E-10	2.708E-10	9.178E-11	2.924E-11	8.937E-12
9.8940E-01	2.941E-09	1.889E-09	5.211E-10	1.487E-10	4.287E-11	1.231E-11
TOTAL	3.346E-09	2.598E-09	1.076E-09	3.938E-10	1.330E-10	4.241E-11

4 P1 R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON) 12.200 TO 15.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.0000E-00	1.111E-10	1.342E-10	1.706E-10	1.945E-10	2.079E-10
-9.8940E-01	1.129E-10	1.361E-10	1.724E-10	1.962E-10	2.093E-10
-8.6575E-01	1.170E-10	1.406E-10	1.771E-10	2.007E-10	2.135E-10
-8.6503E-01	1.195E-10	1.438E-10	1.799E-10	2.034E-10	2.169E-10
-7.5044E-01	1.208E-10	1.453E-10	1.838E-10	2.103E-10	2.240E-10
-6.1787E-01	1.243E-10	1.497E-10	1.912E-10	2.171E-10	2.317E-10
-4.5801E-01	1.286E-10	1.555E-10	1.986E-10	2.273E-10	2.439E-10
-2.8160E-01	1.411E-10	1.703E-10	2.172E-10	2.483E-10	2.648E-10
-9.5012E-02	1.611E-10	1.940E-10	2.460E-10	2.796E-10	2.973E-10
9.5012E-02	2.448E-10	2.174E-10	2.774E-10	3.282E-10	3.472E-10
2.8160E-01	2.334E-10	2.881E-10	3.688E-10	3.734E-10	3.921E-10
4.5801E-01	2.952E-10	3.072E-10	3.694E-10	4.508E-10	4.725E-10
6.1787E-01	3.498E-10	4.071E-10	5.125E-10	5.452E-10	5.688E-10
7.5044E-01	5.833E-10	5.869E-10	6.664E-10	7.476E-10	7.687E-10
8.6563E-01	9.256E-10	9.958E-10	1.082E-09	1.143E-09	1.161E-09
9.4457E-01	2.298E-09	2.326E-09	2.337E-09	2.286E-09	2.183E-09
9.8940E-01	2.734E-08	2.405E-08	1.906E-08	1.519E-08	1.206E-08
TOTAL	8.614E-09	8.376E-09	8.245E-09	8.027E-09	7.667E-09
					7.218E-09
					6.171E-09
COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.0000E-00	1.830E-10	1.549E-10	7.649E-11	3.119E-11	1.131E-11
-9.8940E-01	1.837E-10	1.554E-10	7.671E-11	3.127E-11	1.134E-11
-9.4457E-01	1.862E-10	1.574E-10	7.758E-11	3.162E-11	1.146E-11
-8.6563E-01	1.898E-10	1.605E-10	7.915E-11	3.226E-11	1.169E-11
-7.5044E-01	1.957E-10	1.654E-10	8.155E-11	3.323E-11	1.204E-11
-6.1787E-01	2.034E-10	1.721E-10	8.490E-11	3.459E-11	1.253E-11
-4.5801E-01	2.150E-10	1.819E-10	8.961E-11	3.645E-11	1.319E-11
-2.8160E-01	2.322E-10	1.960E-10	9.607E-11	3.894E-11	1.406E-11
-9.5012E-02	2.565E-10	2.155E-10	1.046E-10	4.217E-11	1.518E-11
9.5012E-02	2.882E-10	2.408E-10	1.156E-10	4.628E-11	1.659E-11
2.8160E-01	3.285E-10	2.729E-10	1.292E-10	5.152E-11	1.838E-11
4.5801E-01	3.812E-10	3.153E-10	1.480E-10	5.842E-11	2.073E-11
6.1787E-01	4.587E-10	3.770E-10	1.743E-10	6.802E-11	2.394E-11
7.5044E-01	5.884E-10	4.777E-10	2.147E-10	8.218E-11	2.853E-11
8.6563E-01	8.298E-10	6.586E-10	2.813E-10	1.042E-10	3.537E-11
9.4457E-01	1.341E-09	1.023E-09	4.004E-10	1.402E-10	4.587E-11
9.8940E-01	3.944E-09	2.565E-09	7.352E-10	2.175E-10	6.459E-11
TOTAL	5.073E-09	4.045E-09	1.790E-09	6.879E-10	2.406E-10
					7.878E-11

## 12.2C0 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ENGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	8.080E-09	9.656E-09	1.203E-08	1.348E-08	1.416E-08	1.427E-08
-9.89401E-01	8.250E-09	9.829E-09	1.220E-08	1.363E-08	1.429E-08	1.438E-08
-9.44575E-01	8.636E-09	1.025E-08	1.263E-08	1.404E-08	1.466E-08	1.471E-08
-8.65631E-01	8.914E-09	1.055E-08	1.288E-08	1.426E-08	1.492E-08	1.499E-08
-7.55044E-01	8.978E-09	1.066E-08	1.318E-08	1.481E-08	1.547E-08	1.553E-08
-6.17876E-01	9.247E-09	1.099E-08	1.375E-08	1.529E-08	1.601E-08	1.610E-08
-4.58017E-01	9.525E-09	1.138E-08	1.423E-08	1.599E-08	1.686E-08	1.700E-08
-2.81605E-01	1.050E-08	1.251E-08	1.565E-08	1.757E-08	1.841E-08	1.856E-08
-9.50125E-02	1.209E-08	1.439E-08	1.790E-08	1.999E-08	2.091E-08	2.100E-08
9.50125E-02	1.894E-08	1.645E-08	2.038E-08	2.383E-08	2.481E-08	2.422E-08
2.81605E-01	1.794E-08	2.192E-08	2.765E-08	2.734E-08	2.825E-08	2.860E-08
4.58017E-01	2.283E-08	2.337E-08	2.759E-08	3.337E-08	3.448E-08	3.375E-08
6.17876E-01	2.743E-08	3.142E-08	3.903E-08	4.072E-08	4.191E-08	4.188E-08
7.55044E-01	4.740E-08	4.576E-08	5.123E-08	5.693E-08	5.783E-08	5.638E-08
8.65631E-01	7.609E-08	8.135E-08	8.590E-08	8.955E-08	9.000E-08	8.713E-08
9.44575E-01	1.970E-07	1.960E-07	1.930E-07	1.861E-07	1.758E-07	1.629E-07
9.89401E-01	2.456E-06	2.152E-06	1.691E-06	1.337E-06	1.052E-06	8.304E-07
TOTAL	7.342E-07	7.016E-07	6.699E-07	6.357E-07	5.935E-07	5.474E-07

4.513E-07

## RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

RANGE (METERS)

1800.0

1500.0

1200.0

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

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RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

RANGE (METERS)

4 PI R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

12.200 TO 15.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	4.351E-11	4.946E-11	5.707E-11	6.024E-11	6.029E-11
-9.89401E-01	4.477E-11	5.074E-11	5.825E-11	6.127E-11	6.114E-11
-9.44575E-01	4.752E-11	5.371E-11	6.122E-11	6.396E-11	6.348E-11
-8.65631E-01	4.924E-11	5.552E-11	6.239E-11	6.480E-11	6.452E-11
-7.55044E-01	4.912E-11	5.506E-11	6.366E-11	6.770E-11	6.730E-11
-6.17876E-01	5.037E-11	5.768E-11	6.656E-11	6.957E-11	6.935E-11
-4.58017E-01	5.144E-11	5.863E-11	6.824E-11	7.253E-11	7.312E-11
-2.81605E-01	5.752E-11	6.557E-11	7.659E-11	8.150E-11	8.139E-11
-9.50125E-02	6.787E-11	7.759E-11	9.051E-11	9.588E-11	9.582E-11
9.50125E-02	1.159E-10	9.045E-11	1.053E-10	1.196E-10	1.193E-10
2.81605E-01	1.077E-10	1.291E-10	1.562E-10	1.396E-10	1.379E-10
4.58017E-01	1.375E-10	1.360E-10	1.429E-10	1.760E-10	1.747E-10
6.17876E-01	1.698E-10	1.916E-10	2.284E-10	2.190E-10	2.170E-10
7.55044E-01	3.142E-10	2.768E-10	2.935E-10	3.243E-10	3.186E-10
8.65631E-01	5.140E-10	5.448E-10	5.468E-10	5.456E-10	5.346E-10
9.44575E-01	1.419E-09	1.376E-09	1.310E-09	1.235E-09	1.141E-09
9.89401E-01	1.871E-08	1.633E-08	1.272E-08	9.954E-09	7.751E-09
TOTAL	5.211E-09	4.831E-09	4.362E-09	3.934E-09	3.505E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	4.257E-11	3.404E-11	1.507E-11	5.793E-12	2.031E-12
-9.89401E-01	4.287E-11	3.424E-11	1.513E-11	5.811E-12	2.037E-12
-9.44575E-01	4.383E-11	3.491E-11	1.535E-11	5.885E-12	2.061E-12
-8.65631E-01	4.481E-11	3.570E-11	1.570E-11	6.021E-12	2.107E-12
-7.55044E-01	4.652E-11	3.703E-11	1.625E-11	6.220E-12	2.175E-12
-6.17876E-01	4.840E-11	3.862E-11	1.700E-11	6.509E-12	2.275E-12
-4.58017E-01	5.170E-11	4.131E-11	1.817E-11	6.939E-12	2.419E-12
-2.81605E-01	5.747E-11	4.577E-11	1.993E-11	7.549E-12	2.617E-12
-9.50125E-02	6.634E-11	5.243E-11	2.241E-11	8.387E-12	2.884E-12
9.50125E-02	7.828E-11	6.131E-11	2.568E-11	9.484E-12	3.232E-12
2.81605E-01	9.323E-11	7.255E-11	2.992E-11	1.092E-11	3.594E-12
4.58017E-01	1.130E-10	8.765E-11	3.580E-11	1.295E-11	4.146E-12
6.17876E-01	1.442E-10	1.116E-10	4.508E-11	1.611E-11	5.348E-12
7.55044E-01	2.032E-10	1.559E-10	6.138E-11	2.144E-11	6.917E-12
8.65631E-01	3.263E-10	2.455E-10	9.182E-11	3.084E-11	9.754E-12
9.44575E-01	6.111E-10	4.437E-10	1.524E-10	4.807E-11	1.452E-11
9.89401E-01	2.270E-09	1.406E-09	3.479E-10	9.032E-11	2.414E-11
TOTAL	1.769E-09	1.302E-09	4.828E-10	1.661E-10	5.409E-11

1800.0

RANGE (METERS)

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## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 P1 R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

CCSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	1.134E-09	1.334E-09	1.626E-09	1.793E-09	1.860E-09	1.855E-09
-9.89401E-01	1.180E-09	1.379E-09	1.669E-09	1.830E-09	1.890E-09	1.878E-09
-9.44575E-01	1.281E-09	1.489E-09	1.778E-09	1.929E-09	1.976E-09	1.952E-09
-8.65631E-01	1.354E-09	1.565E-09	1.835E-09	1.972E-09	2.024E-09	2.000E-09
-7.55044E-01	1.361E-09	1.579E-09	1.855E-09	2.075E-09	2.122E-09	2.091E-09
-6.11787E-01	1.400E-09	1.624E-09	1.974E-09	2.131E-09	2.183E-09	2.157E-09
-4.58017E-01	1.416E-09	1.653E-09	2.004E-09	2.203E-09	2.285E-09	2.267E-09
-2.81605E-01	1.579E-09	1.840E-09	2.233E-09	2.455E-09	2.517E-09	2.499E-09
-9.50125E-02	1.867E-09	2.177E-09	2.627E-09	2.865E-09	2.935E-09	2.900E-09
-9.50125E-02	3.195E-09	2.41E-09	3.067E-09	3.552E-09	3.620E-09	3.442E-09
-2.81605E-01	2.993E-09	3.595E-09	4.429E-09	4.147E-09	4.180E-09	4.170E-09
-4.58017E-01	3.847E-09	3.725E-09	4.244E-09	5.175E-09	5.222E-09	4.988E-09
-6.11787E-01	4.789E-09	5.334E-09	6.466E-09	6.391E-09	6.434E-09	6.319E-09
-7.55044E-01	9.211E-09	7.851E-09	8.496E-09	9.386E-09	9.321E-09	8.593E-09
-8.65631E-01	1.516E-08	1.600E-08	1.576E-08	1.590E-08	1.563E-08	1.483E-08
-9.44575E-01	4.346E-08	4.158E-08	3.902E-08	3.644E-08	3.358E-08	3.047E-08
-9.89401E-01	6.003E-07	5.219E-07	4.035E-07	3.134E-07	2.422E-07	1.877E-07
TOTAL	1.610E-07	1.482E-07	1.327E-07	1.195E-07	1.066E-07	9.457E-08

CCSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-00	1.453E-09	1.185E-09	5.382E-10	2.074E-10	7.230E-11	2.357E-11
-9.89401E-01	1.464E-09	1.193E-09	5.405E-10	2.081E-10	7.254E-11	2.364E-11
-9.44575E-01	1.500E-09	1.218E-09	5.492E-10	2.110E-10	7.351E-11	2.396E-11
-8.65631E-01	1.539E-09	1.249E-09	5.628E-10	2.163E-10	7.534E-11	2.454E-11
-7.55044E-01	1.600E-09	1.297E-09	5.833E-10	2.240E-10	7.801E-11	2.542E-11
-6.11787E-01	1.662E-09	1.351E-09	6.134E-10	2.348E-10	8.183E-11	2.667E-11
-4.58017E-01	1.765E-09	1.437E-09	6.507E-10	2.503E-10	8.713E-11	2.838E-11
-2.81605E-01	1.941E-09	1.578E-09	7.099E-10	2.718E-10	9.438E-11	3.068E-11
-9.50125E-02	2.214E-09	1.787E-09	7.924E-10	3.009E-10	1.039E-10	3.368E-11
-9.50125E-02	2.581E-09	2.065E-09	9.002E-10	3.386E-10	1.163E-10	3.754E-11
-2.81605E-01	3.037E-09	2.414E-09	1.038E-09	3.870E-10	1.322E-10	4.254E-11
-4.58017E-01	3.624E-09	2.869E-09	1.222E-09	4.523E-10	1.537E-10	4.923E-11
-6.11787E-01	4.528E-09	3.568E-09	1.498E-09	5.482E-10	1.845E-10	5.869E-11
-7.55044E-01	6.214E-09	4.834E-09	1.965E-09	7.011E-10	2.317E-10	7.273E-11
-8.65631E-01	9.730E-09	7.375E-09	2.814E-09	9.601E-10	3.074E-10	9.429E-11
-9.44575E-01	1.792E-08	1.301E-08	4.485E-09	1.423E-09	4.327E-10	1.280E-10
-9.89401E-01	6.856E-08	4.195E-08	1.009E-08	2.578E-09	6.848E-10	1.858E-10
TOTAL	5.537E-08	4.125E-08	1.579E-08	5.542E-09	1.827E-09	5.746E-10

## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KEMMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.000E-00	1.720E-09	1.977E-09	2.326E-09	2.493E-09	2.524E-09
-9.89401E-01	1.794E-09	2.053E-09	2.397E-09	2.554E-09	2.575E-09
-9.44575E-01	1.963E-09	2.235E-09	2.578E-09	2.716E-09	2.713E-09
-8.65631E-01	2.084E-09	2.361E-09	2.666E-09	2.781E-09	2.784E-09
-7.55044E-01	2.094E-09	2.381E-09	2.745E-09	2.942E-09	2.933E-09
-6.17876E-01	2.154E-09	2.449E-09	2.882E-09	3.018E-09	3.014E-09
-4.58017E-01	2.174E-09	2.488E-09	2.916E-09	3.115E-09	3.155E-09
-2.81605E-01	2.437E-09	2.786E-09	3.275E-09	3.502E-09	3.504E-09
-9.50125E-02	2.907E-09	3.333E-09	3.905E-09	4.151E-09	4.156E-09
-9.50125E-02	5.146E-09	4.062E-09	4.539E-09	5.285E-09	5.277E-09
-2.81605E-01	4.751E-09	5.665E-09	6.867E-09	6.156E-09	6.074E-09
-4.58017E-01	6.131E-09	5.845E-09	6.471E-09	7.857E-09	7.788E-09
-6.17876E-01	7.751E-09	8.501E-09	1.013E-08	9.767E-09	9.659E-09
-7.55044E-01	1.505E-08	1.343E-08	1.343E-08	1.470E-08	1.440E-08
-8.65631E-01	2.492E-08	2.628E-08	2.551E-08	2.543E-08	2.476E-08
-9.44575E-01	7.225E-08	6.878E-08	6.417E-08	5.940E-08	5.461E-08
-9.89401E-01	1.003E-06	8.721E-07	6.745E-07	5.226E-07	4.033E-07
TOTAL	2.661E-07	2.434E-07	2.148E-07	1.906E-07	1.675E-07
					1.462E-07
					1.097E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.000E-00	1.830E-09	1.469E-09	6.522E-10	2.504E-10	8.758E-11
-9.89401E-01	1.847E-09	1.480E-09	6.552E-10	2.513E-10	8.785E-11
-9.44575E-01	1.901E-09	1.516E-09	6.663E-10	2.547E-10	8.894E-11
-8.65631E-01	1.952E-09	1.556E-09	6.826E-10	2.608E-10	9.097E-11
-7.55044E-01	2.034E-09	1.618E-09	7.072E-10	2.695E-10	9.392E-11
-6.17876E-01	2.111E-09	1.683E-09	7.388E-10	2.818E-10	9.822E-11
-4.58017E-01	2.246E-09	1.795E-09	7.883E-10	3.002E-10	1.043E-10
-2.81605E-01	2.494E-09	1.987E-09	8.643E-10	3.264E-10	1.129E-10
-9.50125E-02	2.891E-09	2.284E-09	9.735E-10	3.630E-10	1.245E-10
-9.50125E-02	3.432E-09	2.684E-09	1.118E-09	4.112E-10	1.397E-10
-2.81605E-01	4.107E-09	3.188E-09	1.306E-09	4.742E-10	1.598E-10
-4.58017E-01	4.983E-09	3.856E-09	1.563E-09	5.624E-10	1.879E-10
-6.17876E-01	6.372E-09	4.914E-09	1.967E-09	6.982E-10	2.306E-10
-7.55044E-01	9.049E-09	6.905E-09	2.680E-09	9.264E-10	2.995E-10
-8.65631E-01	1.477E-08	1.101E-08	4.027E-09	1.329E-09	4.151E-10
-9.44575E-01	2.828E-08	2.029E-08	6.743E-09	2.072E-09	6.134E-10
-9.89401E-01	1.127E-07	6.849E-08	1.603E-08	3.969E-09	1.023E-09
TOTAL	8.079E-08	5.871E-08	2.124E-08	7.195E-09	2.322E-09
					7.208E-10

4 PI R\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

12.200 TO 15.000 MEV NEUTRON SOURCE

CCSINE	RANGE (METERS)						
	75.0	100.0	150.0	200.0	250.0	300.0	400.0
-1.00000E-00	5.683E-10	6.097E-10	6.385E-10	6.208E-10	5.768E-10	5.216E-10	4.047E-10
-9.89401E-01	5.883E-10	6.300E-10	6.571E-10	6.365E-10	5.896E-10	5.319E-10	4.111E-10
-9.46575E-01	6.294E-10	6.740E-10	7.005E-10	6.751E-10	6.223E-10	5.590E-10	4.291E-10
-8.65631E-01	6.474E-10	6.922E-10	7.059E-10	6.745E-10	6.256E-10	5.647E-10	4.364E-10
-7.55044E-01	6.311E-10	6.774E-10	7.095E-10	7.055E-10	6.544E-10	5.906E-10	4.564E-10
-6.17876E-01	6.384E-10	6.858E-10	7.390E-10	7.146E-10	6.651E-10	6.025E-10	4.692E-10
-4.58017E-01	6.418E-10	6.946E-10	7.440E-10	7.378E-10	6.851E-10	6.393E-10	5.044E-10
-2.81605E-01	7.306E-10	7.939E-10	8.599E-10	8.584E-10	8.003E-10	7.390E-10	5.874E-10
-9.50125E-02	8.882E-10	9.745E-10	1.063E-09	1.081E-09	1.003E-09	9.218E-10	7.313E-10
9.50125E-02	1.683E-09	1.765E-09	1.814E-09	1.808E-09	1.309E-09	1.170E-09	9.281E-10
2.81605E-01	1.519E-09	1.781E-09	2.069E-09	1.685E-09	1.585E-09	1.481E-09	1.159E-09
4.58017E-01	1.928E-09	1.650E-09	1.676E-09	2.14CE-09	2.034E-09	1.834E-09	1.449E-09
6.17876E-01	2.387E-09	2.726E-09	3.126E-09	2.732E-09	2.599E-09	2.426E-09	1.925E-09
7.55044E-01	4.825E-09	3.839E-09	3.832E-09	4.252E-09	4.032E-09	3.690E-09	2.946E-09
8.65631E-01	8.032E-09	8.360E-09	8.039E-09	7.676E-09	7.344E-09	6.776E-09	5.346E-09
9.46575E-01	2.343E-08	2.226E-08	2.044E-08	1.885E-08	1.705E-08	1.521E-08	1.154E-08
9.89401E-01	3.253E-07	2.827E-07	2.185E-07	1.694E-07	1.307E-07	1.009E-07	6.022E-08
TOTAL	8.567E-08	7.747E-08	6.683E-08	5.765E-08	4.921E-08	4.173E-08	2.945E-08

RANGE (METERS)

CCSINE	RANGE (METERS)				RANGE (METERS)			
	500.0	600.0	900.0	1200.0	1500.0	1800.0		
-1.00000E-00	3.009E-10	2.179E-10	7.581E-11	2.454E-11	7.614E-12	2.292E-12		
-9.89401E-01	3.048E-10	2.203E-10	7.641E-11	2.470E-11	7.656E-12	2.304E-12		
-9.46575E-01	3.165E-10	2.279E-10	7.846E-11	2.524E-11	7.813E-12	2.349E-12		
-8.65631E-01	3.234E-10	2.336E-10	8.086E-11	2.614E-11	8.095E-12	2.432E-12		
-7.55044E-01	3.383E-10	2.444E-10	8.472E-11	2.736E-11	8.479E-12	2.551E-12		
-6.17876E-01	3.504E-10	2.548E-10	8.957E-11	2.915E-11	9.076E-12	2.734E-12		
-4.58017E-01	3.802E-10	2.785E-10	9.886E-11	3.227E-11	1.002E-11	3.012E-12		
-2.81605E-01	4.443E-10	3.255E-10	1.149E-10	3.715E-11	1.146E-11	3.426E-12		
-9.50125E-02	5.505E-10	4.010E-10	1.390E-10	4.429E-11	1.349E-11	3.996E-12		
9.50125E-02	6.933E-10	5.015E-10	1.707E-10	5.364E-11	1.616E-11	4.748E-12		
2.81605E-01	8.641E-10	6.231E-10	2.104E-10	6.564E-11	1.969E-11	5.759E-12		
4.58017E-01	1.082E-09	7.830E-10	2.660E-10	8.318E-11	2.493E-11	7.279E-12		
6.17876E-01	1.449E-09	1.054E-09	3.819E-10	1.134E-10	3.393E-11	9.871E-12		
7.55044E-01	2.223E-09	1.619E-09	5.531E-10	1.716E-10	5.076E-11	1.460E-11		
8.65631E-01	3.990E-09	2.873E-09	9.512E-10	2.868E-10	8.275E-11	2.332E-11		
9.46575E-01	8.350E-09	5.854E-09	1.813E-09	5.187E-10	1.436E-10	3.913E-11		
9.89401E-01	3.610E-08	2.175E-08	4.905E-09	1.154E-09	2.812E-10	7.026E-11		
TOTAL	2.041E-08	1.396E-08	4.260E-09	1.248E-09	3.578E-10	1.012E-10		

4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS) 12.200 TO 15.000 MEV NEUTRON SOURCE  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.021E-10	1.227E-10	1.540E-10	1.730E-10	1.819E-10
-9.89401E-01	1.042E-10	1.248E-10	1.560E-10	1.748E-10	1.835E-10
-9.44575E-01	1.089E-10	1.295E-10	1.613E-10	1.798E-10	1.880E-10
-8.65631E-01	1.123E-10	1.338E-10	1.645E-10	1.828E-10	1.915E-10
-7.55044E-01	1.134E-10	1.354E-10	1.685E-10	1.897E-10	1.986E-10
-6.17876E-01	1.169E-10	1.397E-10	1.758E-10	1.961E-10	2.057E-10
-4.58017E-01	1.206E-10	1.448E-10	1.822E-10	2.053E-10	2.168E-10
-2.81605E-01	1.324E-10	1.589E-10	2.000E-10	2.233E-10	2.366E-10
-9.50125E-02	1.521E-10	1.820E-10	2.279E-10	2.556E-10	2.680E-10
9.50125E-02	2.338E-10	2.072E-10	2.592E-10	3.030E-10	3.165E-10
2.81605E-01	2.235E-10	2.741E-10	3.477E-10	3.477E-10	3.606E-10
6.17876E-01	2.840E-10	2.935E-10	3.501E-10	4.229E-10	4.386E-10
9.50125E-02	3.396E-10	3.914E-10	4.894E-10	5.155E-10	5.329E-10
7.55044E-01	5.807E-10	5.667E-10	6.423E-10	7.153E-10	7.299E-10
8.65631E-01	9.268E-10	9.940E-10	1.061E-09	1.113E-09	1.124E-09
9.44575E-01	2.364E-09	2.367E-09	2.349E-09	2.278E-09	2.162E-09
9.89401E-01	2.905E-08	2.549E-08	2.008E-08	1.592E-08	1.257E-08
TOTAL	8.833E-09	8.458E-09	8.202E-09	7.850E-09	7.380E-09
					6.843E-09
					5.687E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.475E-10	1.211E-10	5.546E-11	2.140E-11	7.451E-12
-9.89401E-01	1.481E-10	1.216E-10	5.565E-11	2.146E-11	7.475E-12
-9.44575E-01	1.506E-10	1.234E-10	5.642E-11	2.175E-11	7.575E-12
-8.65631E-01	1.540E-10	1.263E-10	5.778E-11	2.230E-11	7.766E-12
-7.55044E-01	1.594E-10	1.308E-10	5.987E-11	2.311E-11	8.054E-12
-6.17876E-01	1.663E-10	1.367E-10	6.279E-11	2.427E-11	8.465E-12
-4.58017E-01	1.768E-10	1.455E-10	6.695E-11	2.589E-11	9.028E-12
-2.81605E-01	1.929E-10	1.586E-10	7.276E-11	2.808E-11	9.782E-12
-9.50125E-02	2.158E-10	1.768E-10	8.056E-11	3.098E-11	1.076E-11
9.50125E-02	2.461E-10	2.008E-10	9.069E-11	3.471E-11	1.203E-11
2.81605E-01	2.847E-10	2.313E-10	1.037E-10	3.952E-11	1.366E-11
6.17876E-01	3.353E-10	2.717E-10	1.211E-10	4.594E-11	1.582E-11
7.55044E-01	4.101E-10	3.311E-10	1.461E-10	5.501E-11	1.883E-11
8.65631E-01	5.369E-10	4.293E-10	1.851E-10	6.856E-11	2.321E-11
9.44575E-01	7.762E-10	6.078E-10	2.502E-10	8.986E-11	2.979E-11
9.89401E-01	1.289E-09	9.718E-10	3.679E-10	1.251E-10	4.000E-11
	3.987E-09	2.559E-09	7.063E-10	2.022E-10	5.845E-11
TOTAL	4.554E-09	3.543E-09	1.475E-09	5.411E-10	1.829E-10
					5.836E-11



4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
 (CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

12.200 TO 15.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.841E-11	2.038E-11	2.230E-11	2.32E-11	2.123E-11
-9.89401E-01	1.855E-11	2.056E-11	2.254E-11	2.262E-11	2.157E-11
-9.44575E-01	1.905E-11	2.121E-11	2.343E-11	2.370E-11	2.279E-11
-8.65631E-01	1.997E-11	2.235E-11	2.495E-11	2.549E-11	2.475E-11
-7.55044E-01	2.122E-11	2.385E-11	2.682E-11	2.758E-11	2.692E-11
-6.17876E-01	2.283E-11	2.572E-11	2.901E-11	2.987E-11	2.916E-11
-4.58017E-01	2.490E-11	2.809E-11	3.173E-11	3.264E-11	3.180E-11
-2.81605E-01	2.769E-11	3.129E-11	3.541E-11	3.646E-11	3.550E-11
-9.50125E-02	3.151E-11	3.572E-11	4.065E-11	4.202E-11	4.107E-11
9.50125E-02	3.628E-11	5.618E-11	5.609E-11	4.603E-11	4.500E-11
2.81605E-01	5.923E-11	4.896E-11	5.206E-11	6.520E-11	6.484E-11
4.58017E-01	5.344E-11	6.875E-11	7.854E-11	7.476E-11	7.453E-11
6.17876E-01	6.627E-11	8.501E-11	9.335E-11	1.070E-10	1.078E-10
7.55044E-01	9.801E-11	1.116E-10	1.429E-10	1.462E-10	1.489E-10
8.65631E-01	1.523E-10	1.718E-10	2.174E-10	2.398E-10	2.462E-10
9.44575E-01	2.529E-10	3.221E-10	3.906E-10	4.437E-10	4.669E-10
9.89401E-01	6.584E-10	8.166E-10	1.076E-09	1.231E-09	1.322E-09
TOTAL	7.657E-10	9.077E-10	1.075E-09	1.156E-09	1.180E-09

COSINE	RANGE (METERS)				
	300.0	400.0	500.0	600.0	700.0
-1.00000E 00	1.958E-11	1.567E-11	1.235E-11	9.84E-12	7.65E-12
-9.89401E-01	1.994E-11	1.606E-11	1.274E-11	1.004E-11	7.84E-12
-9.44575E-01	2.125E-11	1.744E-11	1.370E-11	1.073E-11	8.42E-12
-8.65631E-01	2.330E-11	1.949E-11	1.549E-11	1.164E-11	9.19E-12
-7.55044E-01	2.546E-11	2.146E-11	1.758E-11	1.370E-11	1.060E-11
-6.17876E-01	2.756E-11	2.315E-11	1.996E-11	1.515E-11	1.151E-11
-4.58017E-01	2.996E-11	2.496E-11	2.274E-11	1.665E-11	1.246E-11
-2.81605E-01	3.342E-11	2.774E-11	2.646E-11	1.839E-11	1.416E-11
-9.50125E-02	3.879E-11	3.238E-11	3.050E-11	2.039E-11	1.576E-11
9.50125E-02	4.766E-11	3.948E-11	3.500E-11	2.327E-11	1.839E-11
2.81605E-01	5.757E-11	4.985E-11	4.484E-11	2.646E-11	2.039E-11
4.58017E-01	7.574E-11	6.467E-11	5.745E-11	3.050E-11	2.327E-11
6.17876E-01	1.010E-10	8.871E-11	7.745E-11	3.541E-11	2.769E-11
7.55044E-01	1.490E-10	1.345E-10	1.180E-10	4.065E-11	3.151E-11
8.65631E-01	2.425E-10	2.233E-10	1.980E-10	4.896E-11	3.628E-11
9.44575E-01	4.727E-10	4.472E-10	3.906E-10	5.923E-11	5.344E-11
9.89401E-01	1.359E-09	1.328E-09	1.076E-09	8.166E-10	6.584E-10
TOTAL	1.165E-09	1.052E-09	8.166E-10	6.584E-10	5.344E-11

RANGE (METERS)

CCSINE

TOTAL

## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.883E-09	2.114E-09	2.377E-09	2.447E-09	2.393E-09
-9.89401E-01	1.896E-09	2.131E-09	2.401E-09	2.477E-09	2.427E-09
-9.44575E-01	1.946E-09	2.195E-09	2.489E-09	2.585E-09	2.549E-09
-8.65631E-01	2.037E-09	2.308E-09	2.640E-09	2.745E-09	2.641E-09
-7.55044E-01	2.162E-09	2.458E-09	2.828E-09	2.973E-09	2.964E-09
-6.17876E-01	2.321E-09	2.643E-09	3.047E-09	3.205E-09	3.193E-09
-4.58017E-01	2.528E-09	2.880E-09	3.320E-09	3.485E-09	3.461E-09
-2.81605E-01	2.804E-09	3.198E-09	3.689E-09	3.869E-09	3.838E-09
-9.50125E-02	3.184E-09	3.639E-09	4.212E-09	4.427E-09	4.399E-09
9.50125E-02	3.655E-09	5.671E-09	5.749E-09	4.831E-09	4.798E-09
2.81605E-01	5.944E-09	4.946E-09	5.341E-09	6.740E-09	6.777E-09
4.58017E-01	5.361E-09	6.930E-09	7.924E-09	7.692E-09	7.743E-09
6.17876E-01	6.635E-09	8.517E-09	9.426E-09	1.089E-08	1.105E-08
7.55044E-01	9.759E-09	1.117E-08	1.438E-08	1.478E-08	1.512E-08
8.65631E-01	1.516E-08	1.711E-08	2.172E-08	2.405E-08	2.476E-08
9.44575E-01	2.515E-08	3.203E-08	3.891E-08	4.427E-08	4.664E-08
9.89401E-01	6.542E-08	8.120E-08	1.071E-07	1.227E-07	1.318E-07
TOTAL	7.668E-08	9.123E-08	1.089E-07	1.175E-07	1.212E-07
					1.203E-07
					1.097E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.527E-09	1.175E-09	4.875E-10	1.882E-10	7.163E-11
-9.89401E-01	1.566E-09	1.217E-09	5.154E-10	2.053E-10	8.074E-11
-9.44575E-01	1.700E-09	1.339E-09	5.901E-10	2.506E-10	1.064E-10
-8.65631E-01	1.892E-09	1.510E-09	7.022E-10	3.057E-10	1.233E-10
-7.55044E-01	2.065E-09	1.657E-09	7.748E-10	3.446E-10	1.537E-10
-6.17876E-01	2.201E-09	1.754E-09	7.998E-10	3.454E-10	1.459E-10
-4.58017E-01	2.335E-09	1.837E-09	8.078E-10	3.296E-10	1.345E-10
-2.81605E-01	2.555E-09	1.997E-09	8.605E-10	3.532E-10	1.461E-10
-9.50125E-02	2.944E-09	2.310E-09	1.007E-09	4.204E-10	1.759E-10
9.50125E-02	3.556E-09	2.809E-09	1.256E-09	5.389E-10	2.329E-10
2.81605E-01	4.424E-09	3.509E-09	1.585E-09	6.837E-10	2.968E-10
4.58017E-01	5.665E-09	4.495E-09	2.009E-09	8.456E-10	3.545E-10
6.17876E-01	7.671E-09	6.106E-09	2.718E-09	1.120E-09	4.529E-10
7.55044E-01	1.146E-08	9.261E-09	4.290E-09	1.826E-09	7.603E-10
8.65631E-01	1.955E-08	1.626E-08	8.197E-09	3.796E-09	1.709E-09
9.44575E-01	3.992E-08	3.423E-08	1.893E-08	9.525E-09	4.611E-09
9.89401E-01	1.217E-07	1.072E-07	6.429E-08	3.480E-08	1.792E-08
TOTAL	9.425E-08	7.611E-08	3.978E-08	1.890E-08	8.811E-09
					4.097E-09

## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*2 AIR KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.0000E-00	2.259E-09	2.748E-09	3.539E-09	4.073E-09	4.373E-09
-9.8940E-01	2.272E-09	2.764E-09	3.562E-09	4.102E-09	4.407E-09
-9.4457E-01	2.320E-09	2.827E-09	3.651E-09	4.213E-09	4.534E-09
-8.6563E-01	2.408E-09	2.938E-09	3.805E-09	4.399E-09	4.742E-09
-7.5504E-01	2.529E-09	3.037E-09	4.000E-09	4.625E-09	4.985E-09
-6.1787E-01	2.685E-09	3.274E-09	4.232E-09	4.884E-09	5.253E-09
-4.5801E-01	2.887E-09	3.513E-09	4.524E-09	5.201E-09	5.577E-09
-2.8160E-01	3.157E-09	3.832E-09	4.915E-09	5.631E-09	6.19E-09
-9.5012E-02	3.526E-09	4.271E-09	5.460E-09	6.239E-09	6.765E-09
-9.5012E-02	3.986E-09	4.777E-09	6.177E-09	6.726E-09	7.167E-09
-2.8160E-01	6.108E-09	5.58E-09	6.79E-09	8.615E-09	9.156E-09
-4.5801E-01	5.611E-09	7.433E-09	9.209E-09	9.657E-09	1.025E-08
-6.1787E-01	6.815E-09	8.981E-09	1.069E-08	1.279E-08	1.353E-08
-7.5504E-01	9.762E-09	1.148E-08	1.536E-08	1.559E-08	1.755E-08
-8.6563E-01	1.477E-08	1.706E-08	2.32E-08	2.536E-08	2.672E-08
-9.4457E-01	2.400E-08	3.087E-08	3.830E-08	4.421E-08	4.714E-08
-9.8940E-01	6.106E-08	7.668E-08	1.010E-07	1.163E-07	1.253E-07
TOTAL	7.853E-08	9.636E-08	1.217E-07	1.381E-07	1.472E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.0000E-00	3.791E-09	3.181E-09	1.601E-09	7.284E-10	3.234E-10
-9.8940E-01	3.831E-09	3.220E-09	1.628E-09	7.51E-10	3.322E-10
-9.4457E-01	3.973E-09	3.348E-09	1.706E-09	7.909E-10	3.576E-10
-8.6563E-01	4.184E-09	3.536E-09	1.826E-09	8.494E-10	3.858E-10
-7.5504E-01	4.396E-09	3.719E-09	1.919E-09	8.976E-10	4.102E-10
-6.1787E-01	4.593E-09	3.873E-09	1.977E-09	9.153E-10	4.107E-10
-4.5801E-01	4.811E-09	4.033E-09	2.031E-09	9.225E-10	4.101E-10
-2.8160E-01	5.132E-09	4.285E-09	2.136E-09	9.707E-10	4.326E-10
-9.5012E-02	5.635E-09	4.700E-09	2.339E-09	1.064E-09	4.735E-10
-9.5012E-02	6.372E-09	5.312E-09	2.649E-09	1.209E-09	5.415E-10
-2.8160E-01	7.376E-09	6.137E-09	3.045E-09	1.384E-09	6.186E-10
-4.5801E-01	8.760E-09	7.255E-09	3.546E-09	1.583E-09	6.932E-10
-6.1787E-01	1.089E-08	8.983E-09	4.326E-09	1.893E-09	8.094E-10
-7.5504E-01	1.469E-08	1.216E-08	5.916E-09	2.609E-09	9.473E-10
-8.6563E-01	2.247E-08	1.889E-08	9.660E-09	4.485E-09	1.122E-09
-9.4457E-01	4.149E-08	3.564E-08	1.963E-08	9.796E-09	2.026E-09
-9.8940E-01	1.162E-07	1.023E-07	6.082E-08	3.267E-08	4.708E-09
TOTAL	1.268E-07	1.070E-07	5.574E-08	2.649E-08	1.227E-08

1.433E-07

1.504E-07

1.472E-07

1.381E-07

1.217E-07

1.010E-07

8.332E-09

2.232E-09

9.137E-10

4.853E-10

3.473E-10

3.034E-10

2.776E-10

2.429E-10

2.128E-10

1.927E-10

1.831E-10

1.852E-10

1.877E-10

1.744E-10

1.623E-10

1.483E-10

1.439E-10

1.504E-07

1.472E-07

1.381E-07

1.217E-07

1.010E-07

8.332E-09

2.232E-09

9.137E-10

4.853E-10

3.473E-10

3.034E-10

2.776E-10

2.429E-10

2.128E-10

1.927E-10

1.831E-10

1.852E-10

1.877E-10

1.744E-10

1.623E-10

1.483E-10

1.439E-10

1.504E-07

1.472E-07

1.381E-07

1.217E-07

1.010E-07

8.332E-09

2.232E-09

9.137E-10

4.853E-10

3.473E-10

3.034E-10

2.776E-10

2.429E-10

2.128E-10

1.927E-10

1.831E-10

1.852E-10

1.877E-10

1.744E-10

1.623E-10

1.483E-10

1.439E-10

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1.217E-07

1.010E-07

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9.137E-10

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3.034E-10

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2.429E-10

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4.853E-10

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3.034E-10

2.776E-10

2.429E-10

2.128E-10

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9.137E-10

4.853E-10

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4.853E-10

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1.217E-07

1.010E-07

8.332E-09

2.232E-09

9.137E-10

4.853E-10

3.473E-10

3.034E-10

2.776E-10

2.429E-10

2.128E-10

1.927E-10

1.831E-10

1.852E-10

1.877E-10

1.744E-10

1.623E-10

1.483E-10

1.439E-10

1.504E-07

1.472E-07

1.381E-07

1.217E-07

1.010E-07

8.332E-09

2.232E-09

9.137E-10

4.853E-10

3.473E-10

3.034E-10

2.776E-10

2.429E-10

2.128E-10

1.927E-10

1.831E-10

1.852E-10

1.877E-10

1.744E-10

1.623E-10

1.483E-10

1.439E-10

1.504E

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STANDARD/SOURCE NEUTRON)

12.200 TO 15.000 MEV NEUTRON SOURCE

CCSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.940E-09	2.186E-09	2.482E-09	2.581E-09	2.551E-09
-9.89401E-01	1.953E-09	2.204E-09	2.506E-09	2.611E-09	2.585E-09
-9.44575E-01	2.004E-09	2.269E-09	2.596E-09	2.710E-09	2.710E-09
-8.65631E-01	2.098E-09	2.385E-09	2.751E-09	2.905E-09	2.911E-09
-7.55044E-01	2.225E-09	2.538E-09	2.942E-09	3.119E-09	3.134E-09
-6.17876E-01	2.388E-09	2.772E-09	3.166E-09	3.355E-09	3.366E-09
-4.58017E-01	2.599E-09	2.969E-09	3.439E-09	3.639E-09	3.639E-09
-2.81605E-01	2.881E-09	3.293E-09	3.820E-09	4.030E-09	4.022E-09
-9.50125E-02	3.269E-09	3.743E-09	4.352E-09	4.598E-09	4.592E-09
9.50125E-02	3.749E-09	5.824E-09	5.925E-09	5.006E-09	4.994E-09
2.81605E-01	6.097E-09	5.075E-09	5.497E-09	6.956E-09	7.014E-09
4.58017E-01	5.496E-09	7.110E-09	8.216E-09	7.920E-09	7.992E-09
6.17876E-01	6.799E-09	8.721E-09	9.662E-09	1.119E-08	1.136E-08
7.55044E-01	9.981E-09	1.145E-08	1.473E-08	1.515E-08	1.551E-08
8.65631E-01	1.551E-08	1.751E-08	2.235E-08	2.462E-08	2.536E-08
9.44575E-01	2.575E-08	3.279E-08	3.984E-08	4.533E-08	4.776E-08
9.89401E-01	6.704E-08	8.322E-08	1.097E-07	1.258E-07	1.352E-07
TOTAL	7.861E-08	9.360E-08	1.119E-07	1.214E-07	1.250E-07
					1.243E-07
					1.137E-07

CCSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.702E-09	1.333E-09	5.705E-10	2.265E-10	8.866E-11
-9.89401E-01	1.742E-09	1.373E-09	5.991E-10	2.441E-10	9.801E-11
-9.44575E-01	1.880E-09	1.497E-09	6.759E-10	2.907E-10	1.245E-10
-8.65631E-01	2.076E-09	1.672E-09	7.907E-10	3.473E-10	1.521E-10
-7.55044E-01	2.253E-09	1.823E-09	8.648E-10	3.869E-10	1.723E-10
-6.17876E-01	2.590E-09	1.921E-09	8.895E-10	3.874E-10	1.848E-10
-4.58017E-01	2.525E-09	2.003E-09	8.964E-10	3.704E-10	1.526E-10
-2.81605E-01	2.746E-09	2.164E-09	9.485E-10	3.937E-10	1.641E-10
-9.50125E-02	3.141E-09	2.480E-09	1.097E-09	4.614E-10	1.941E-10
9.50125E-02	3.761E-09	2.986E-09	1.348E-09	5.815E-10	2.519E-10
2.81605E-01	4.641E-09	3.695E-09	1.681E-09	7.277E-10	3.164E-10
4.58017E-01	5.899E-09	4.653E-09	2.109E-09	8.899E-10	3.738E-10
6.17876E-01	7.934E-09	6.325E-09	2.824E-09	1.165E-09	4.715E-10
7.55044E-01	1.179E-08	9.532E-09	4.418E-09	1.879E-09	7.817E-10
8.65631E-01	2.005E-08	1.667E-08	8.401E-09	3.881E-09	1.748E-09
9.44575E-01	4.090E-08	3.507E-08	1.940E-08	9.758E-09	4.723E-09
9.89401E-01	1.250E-07	1.102E-07	6.611E-08	3.582E-08	1.846E-08
TOTAL	9.792E-08	8.128E-08	4.148E-08	1.971E-08	9.186E-09
					4.270E-09

## 10.00 TO 12.20 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	-7.568E-04	-6.179E-04	-2.740E-04	3.698E-05	1.176E-04	1.740E-04	1.187E-05	1.296E-05	1.202E-04
1.00E 01---1.22E 01	1.896E-03	1.857E-03	1.727E-03	1.565E-03	1.499E-03	1.606E-03	1.837E-03	1.843E-03	3.316E-03
8.19E 00---1.00E 01	2.475E-03	2.449E-03	2.354E-03	2.200E-03	2.037E-03	1.906E-03	1.837E-03	1.843E-03	1.926E-03
6.36E 00---8.19E 00	1.040E-03	1.063E-03	1.075E-03	1.101E-03	1.145E-03	1.211E-03	1.303E-03	1.426E-03	1.586E-03
4.97E 00---6.36E 00	1.386E-03	1.386E-03	1.405E-03	1.445E-03	1.504E-03	1.587E-03	1.696E-03	1.841E-03	2.030E-03
3.01E 00---4.97E 00	1.740E-03	1.744E-03	1.764E-03	1.804E-03	1.866E-03	1.955E-03	2.076E-03	2.240E-03	2.461E-03
2.46E 00---3.01E 00	2.870E-03	2.876E-03	2.901E-03	2.950E-03	3.028E-03	3.140E-03	3.297E-03	3.514E-03	3.809E-03
2.35E 00---2.46E 00	3.735E-03	3.741E-03	3.765E-03	3.816E-03	3.899E-03	4.028E-03	4.215E-03	4.481E-03	4.850E-03
1.83E 00---2.35E 00	3.051E-03	3.059E-03	3.090E-03	3.154E-03	3.254E-03	3.396E-03	3.591E-03	3.852E-03	4.193E-03
1.11E 00---1.83E 00	3.297E-03	3.306E-03	3.341E-03	3.413E-03	3.515E-03	3.661E-03	3.844E-03	4.104E-03	4.426E-03
5.50E 01---1.11E 01	4.619E-03	4.619E-03	4.656E-03	4.727E-03	4.835E-03	4.984E-03	5.178E-03	5.427E-03	5.743E-03
1.11E 01---5.50E 01	5.927E-03	5.935E-03	5.968E-03	6.031E-03	6.124E-03	6.248E-03	6.404E-03	6.595E-03	6.826E-03
3.35E 02---1.11E 01	2.998E-02	3.000E-02	3.007E-02	3.021E-02	3.040E-02	3.066E-02	3.097E-02	3.133E-02	3.175E-02
5.83E 04---3.35E 02	2.368E-02	2.369E-02	2.373E-02	2.379E-02	2.389E-02	2.401E-02	2.416E-02	2.433E-02	2.451E-02
1.01E 04---5.83E 04	1.338E 00	1.336E 00	1.340E 00	1.343E 00	1.347E 00	1.352E 00	1.359E 00	1.366E 00	1.374E 00
2.90E 05---1.01E 04	5.573E 00	5.574E 00	5.580E 00	5.591E 00	5.606E 00	5.625E 00	5.647E 00	5.672E 00	5.698E 00
1.07E 05---2.90E 05	1.586E 01	1.586E 01	1.588E 01	1.590E 01	1.594E 01	1.599E 01	1.605E 01	1.611E 01	1.618E 01
3.06E 06---1.07E 05	4.136E 01	4.137E 01	4.143E 01	4.147E 01	4.154E 01	4.167E 01	4.181E 01	4.196E 01	4.212E 01
1.12E 06---3.06E 06	1.087E 02	1.087E 02	1.088E 02	1.089E 02	1.091E 02	1.094E 02	1.098E 02	1.101E 02	1.105E 02
4.14E 07---1.12E 06	2.339E 02	2.339E 02	2.341E 02	2.344E 02	2.348E 02	2.354E 02	2.361E 02	2.368E 02	2.376E 02
0.0 ---4.14E 07	3.339E 02	3.340E 02	3.343E 02	3.348E 02	3.354E 02	3.362E 02	3.370E 02	3.379E 02	3.388E 02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	7.459E-04	8.817E-04	1.683E-03	6.798E-03	2.680E-02	1.326E-01	2.003E-01	1.324E 00	3.969E-01
8.19E 00---1.00E 01	5.849E-03	7.647E-03	6.107E-03	6.851E-03	9.044E-03	1.489E-02	2.376E-02	3.591E-02	7.376E-02
6.36E 00---8.19E 00	2.138E-03	2.202E-03	4.551E-03	2.866E-03	3.507E-03	5.984E-03	9.791E-03	1.324E-02	3.688E-02
4.97E 00---6.36E 00	2.674E-03	2.183E-03	2.510E-03	2.748E-03	3.574E-03	5.571E-03	7.781E-03	1.068E-02	3.002E-02
3.01E 00---4.97E 00	3.451E-03	2.775E-03	3.176E-03	3.435E-03	4.442E-03	6.716E-03	9.818E-03	1.373E-02	3.823E-02
2.46E 00---3.01E 00	4.226E-03	3.360E-03	3.850E-03	4.162E-03	5.384E-03	8.130E-03	1.184E-02	1.646E-02	4.648E-02
2.35E 00---2.46E 00	5.942E-03	4.973E-03	5.632E-03	6.135E-03	7.782E-03	1.128E-02	1.588E-02	2.135E-02	6.800E-02
1.83E 00---2.35E 00	5.536E-03	6.531E-03	7.229E-03	7.813E-03	9.758E-03	1.382E-02	1.911E-02	2.535E-02	8.343E-02
1.11E 00---1.83E 00	4.798E-03	5.654E-03	6.233E-03	6.673E-03	8.201E-03	1.144E-02	1.567E-02	2.063E-02	7.059E-02
5.50E 01---1.11E 01	4.973E-03	5.731E-03	6.244E-03	6.633E-03	7.905E-03	1.052E-02	1.386E-02	1.759E-02	7.045E-02
1.11E 01---5.50E 01	6.245E-03	6.918E-03	7.407E-03	7.818E-03	8.927E-03	1.104E-02	1.361E-02	1.635E-02	8.477E-02
1.11E 01---5.50E 01	7.152E-03	7.558E-03	7.866E-03	8.133E-03	8.699E-03	9.648E-03	1.070E-02	1.168E-02	9.207E-02
3.35E 02---1.11E 01	3.245E-02	3.393E-02	3.408E-02	3.428E-02	3.472E-02	3.519E-02	3.565E-02	3.614E-02	3.664E-01
5.83E 04---3.35E 02	2.471E-02	2.491E-02	2.510E-02	2.528E-02	2.546E-02	2.563E-02	2.579E-02	2.590E-02	3.098E-01
1.01E 04---5.83E 04	1.382E 00	1.390E 00	1.393E 00	1.405E 00	1.411E 00	1.416E 00	1.420E 00	1.422E 00	1.732E 01
1.01E 04---5.83E 04	5.726E 00	5.754E 00	5.780E 00	5.804E 00	5.825E 00	5.843E 00	5.855E 00	5.861E 00	7.181E 01
1.07E 05---1.01E 04	1.625E 01	1.632E 01	1.639E 01	1.645E 01	1.650E 01	1.655E 01	1.658E 01	1.659E 01	2.038E 02
1.07E 05---1.01E 04	4.228E 01	4.245E 01	4.260E 01	4.274E 01	4.287E 01	4.297E 01	4.304E 01	4.307E 01	5.304E 02
1.12E 06---1.07E 05	1.109E 02	1.113E 02	1.117E 02	1.120E 02	1.123E 02	1.126E 02	1.127E 02	1.128E 02	1.391E 03
4.14E 07---1.12E 06	2.384E 02	2.392E 02	2.399E 02	2.406E 02	2.412E 02	2.417E 02	2.420E 02	2.422E 02	2.991E 03
0.0 ---4.14E 07	3.398E 02	3.408E 02	3.417E 02	3.426E 02	3.434E 02	3.439E 02	3.443E 02	3.444E 02	4.264E 03

## 10.00 TO 12.20 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	-8.683E-04	-7.084E-04	-2.753E-04	1.004E-04	2.083E-04	2.310E-04	-4.459E-05	-5.684E-05	1.046E-04
8.19E 00---1.00E 01	1.939E-03	1.890E-03	1.724E-03	1.520E-03	1.449E-03	1.534E-03	2.123E-03	2.881E-03	3.815E-03
6.36E 00---8.19E 00	2.904E-03	2.871E-03	2.601E-03	2.569E-03	2.380E-03	2.260E-03	2.235E-03	2.331E-03	2.552E-03
4.97E 00---6.36E 00	1.613E-03	1.616E-03	1.532E-03	1.671E-03	1.740E-03	1.850E-03	2.007E-03	2.220E-03	2.495E-03
4.07E 00---4.97E 00	2.158E-03	2.166E-03	2.198E-03	2.262E-03	2.357E-03	2.488E-03	2.663E-03	2.892E-03	3.193E-03
3.01E 00---4.07E 00	2.680E-03	2.686E-03	2.711E-03	2.763E-03	2.844E-03	2.946E-03	3.133E-03	3.368E-03	3.692E-03
2.46E 00---3.01E 00	4.733E-03	4.741E-03	4.747E-03	4.843E-03	4.954E-03	5.120E-03	5.365E-03	5.711E-03	6.202E-03
2.35E 00---2.46E 00	6.431E-03	6.439E-03	6.472E-03	6.562E-03	6.678E-03	6.892E-03	7.223E-03	7.715E-03	8.415E-03
1.83E 00---2.35E 00	5.446E-03	5.460E-03	5.517E-03	5.632E-03	5.781E-03	6.082E-03	6.453E-03	6.954E-03	7.620E-03
1.11E 00---1.83E 00	6.433E-03	6.450E-03	6.522E-03	6.666E-03	6.878E-03	7.176E-03	7.572E-03	8.086E-03	8.750E-03
5.50E 01---1.11E 00	1.044E-02	1.046E-02	1.055E-02	1.073E-02	1.100E-02	1.137E-02	1.186E-02	1.248E-02	1.327E-02
3.35E 02---1.11E 01	1.11E-02	1.611E-02	1.621E-02	1.641E-02	1.670E-02	1.708E-02	1.756E-02	1.815E-02	1.885E-02
5.87E 04---3.35E 02	9.596E-02	9.604E-02	9.636E-02	9.697E-02	9.784E-02	9.896E-02	1.003E-01	1.019E-01	1.037E-01
1.01E 04---5.87E 04	7.991E-02	7.995E-02	8.014E-02	8.051E-02	8.101E-02	8.166E-02	8.243E-02	8.332E-02	8.430E-02
2.90E 05---1.01E 04	4.652E 00	4.654E 00	4.663E 00	4.681E 00	4.706E 00	4.737E 00	4.775E 00	4.817E 00	4.863E 00
1.07E 05---2.90E 05	1.968E 01	1.969E 01	1.972E 01	1.979E 01	1.988E 01	2.000E 01	2.014E 01	2.029E 01	2.046E 01
3.06E 06---1.07E 05	5.652E 01	5.655E 01	5.664E 01	5.682E 01	5.707E 01	5.738E 01	5.774E 01	5.817E 01	5.863E 01
1.12E 06---3.06E 06	1.488E 02	1.488E 02	1.490E 02	1.495E 02	1.501E 02	1.508E 02	1.517E 02	1.528E 02	1.538E 02
4.14E 07---1.12E 06	3.932E 02	3.934E 02	3.939E 02	3.950E 02	3.965E 02	3.984E 02	4.006E 02	4.031E 02	4.058E 02
0.0	8.505E 02	8.507E 02	8.519E 02	8.541E 02	8.572E 02	8.610E 02	8.655E 02	8.706E 02	8.760E 02
1.221E 03	1.221E 03	1.221E 03	1.221E 03	1.226E 03	1.231E 03	1.236E 03	1.241E 03	1.247E 03	1.254E 03
1.221E 07	1.221E 07	1.221E 07	1.221E 07	1.226E 03	1.231E 03	1.236E 03	1.241E 03	1.247E 03	1.254E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	8.934E-04	1.154E-03	1.253E-03	2.647E-03	6.155E-03	2.654E-02	1.240E-01	1.073E 00	2.586E-01
8.19E 00---1.00E 01	3.420E-03	6.329E-03	8.280E-03	8.281E-03	1.427E-02	2.095E-02	3.313E-02	7.082E-02	9.134E-02
6.36E 00---8.19E 00	3.778E-03	2.311E-03	4.777E-03	4.262E-03	6.536E-03	1.004E-02	1.362E-02	2.804E-02	5.265E-02
4.97E 00---6.36E 00	2.367E-03	3.770E-03	3.576E-03	5.333E-03	6.141E-03	9.259E-03	1.310E-02	2.339E-02	4.808E-02
4.07E 00---4.97E 00	2.967E-03	4.732E-03	4.944E-03	6.599E-03	7.426E-03	1.124E-02	1.569E-02	2.799E-02	6.000E-02
3.01E 00---4.07E 00	3.359E-03	5.512E-03	5.020E-03	7.705E-03	8.565E-03	1.299E-02	1.789E-02	3.130E-02	6.949E-02
2.46E 00---3.01E 00	5.855E-03	8.810E-03	8.515E-03	1.205E-02	1.386E-02	2.008E-02	2.760E-02	4.739E-02	1.131E-01
2.35E 00---2.46E 00	1.248E-02	8.939E-03	1.308E-02	1.626E-02	1.828E-02	2.699E-02	3.625E-02	6.038E-02	1.550E-01
1.83E 00---2.35E 00	1.122E-02	8.060E-03	1.145E-02	1.401E-02	1.526E-02	2.179E-02	2.811E-02	4.470E-02	1.322E-01
1.11E 00---1.83E 00	1.198E-02	9.293E-03	1.320E-02	1.445E-02	1.544E-02	2.056E-02	2.504E-02	3.607E-02	1.393E-01
5.50E 01---1.11E 00	1.609E-02	1.438E-02	1.710E-02	1.930E-02	2.062E-02	2.512E-02	2.905E-02	3.777E-02	1.953E-01
3.35E 02---1.11E 01	2.062E-02	2.007E-02	2.169E-02	2.307E-02	2.393E-02	2.602E-02	2.750E-02	3.018E-02	2.525E-01
5.87E 04---3.35E 02	1.105E-01	1.071E-01	1.072E-01	1.154E-01	1.112E-01	1.172E-01	1.172E-01	1.184E-01	1.329E 00
1.01E 04---5.87E 04	8.533E-02	8.639E-02	8.749E-02	8.852E-02	8.944E-02	9.025E-02	9.085E-02	9.121E-02	1.069E 00
2.90E 05---1.01E 04	4.912E 00	4.962E 00	5.010E 00	5.057E 00	5.097E 00	5.132E 00	5.157E 00	5.171E 00	5.186E 02
1.07E 05---2.90E 05	2.064E 01	2.082E 01	2.100E 01	2.117E 01	2.131E 01	2.143E 01	2.152E 01	2.157E 01	2.586E 02
3.06E 06---1.07E 05	5.910E 01	5.958E 01	6.004E 01	6.047E 01	6.085E 01	6.116E 01	6.138E 01	6.151E 01	7.604E 02
1.12E 06---3.06E 06	1.550E 02	1.561E 02	1.572E 02	1.582E 02	1.591E 02	1.598E 02	1.604E 02	1.607E 02	1.942E 03
4.14E 07---1.12E 06	4.086E 02	4.113E 02	4.140E 02	4.165E 02	4.187E 02	4.204E 02	4.217E 02	4.224E 02	5.130E 03
0.0	8.817E 02	8.873E 02	8.927E 02	8.978E 02	9.021E 02	9.057E 02	9.082E 02	9.097E 02	1.105E 04
1.261E 03	1.261E 03	1.268E 03	1.275E 03	1.283E 03	1.287E 03	1.291E 03	1.294E 03	1.296E 03	1.581E 04

## 10.00 TO 12.20 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 200.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-7.776E-04	-6.341E-04	-2.328E-04	6.060E-05	2.003E-04	1.987E-04	-3.538E-05	-4.788E-05	1.201E-04
8.19E 00--1.00E 01	1.733E-03	1.689E-03	1.540E-03	1.313E-03	1.313E-03	1.510E-03	1.998E-03	2.743E-03	3.656E-03
6.36E 00--8.19E 00	2.801E-03	2.769E-03	2.653E-03	2.477E-03	2.315E-03	2.226E-03	2.247E-03	2.387E-03	2.638E-03
4.97E 00--6.36E 00	1.772E-03	1.776E-03	1.792E-03	1.833E-03	1.911E-03	2.038E-03	2.23E-03	2.471E-03	2.790E-03
4.07E 00--4.97E 00	2.418E-03	2.427E-03	2.464E-03	2.537E-03	2.645E-03	2.794E-03	2.992E-03	3.251E-03	3.593E-03
3.01E 00--4.07E 00	2.976E-03	2.982E-03	3.008E-03	3.060E-03	3.144E-03	3.269E-03	3.449E-03	3.702E-03	4.058E-03
2.46E 00--3.01E 00	5.322E-03	5.331E-03	5.367E-03	5.442E-03	5.562E-03	5.747E-03	6.020E-03	6.419E-03	6.992E-03
2.35E 00--2.46E 00	7.344E-03	7.352E-03	7.392E-03	7.480E-03	7.637E-03	7.896E-03	8.299E-03	8.898E-03	9.763E-03
1.83E 00--2.35E 00	6.399E-03	6.413E-03	6.484E-03	6.624E-03	6.847E-03	7.172E-03	7.625E-03	8.237E-03	9.050E-03
1.11E 00--1.83E 00	7.872E-03	7.894E-03	7.984E-03	8.162E-03	8.430E-03	8.804E-03	9.300E-03	9.943E-03	1.076E-02
5.50E 01--1.11E 00	1.359E-02	1.363E-02	1.375E-02	1.400E-02	1.438E-02	1.489E-02	1.555E-02	1.640E-02	1.747E-02
1.11E 01--5.50E 01	2.266E-02	2.270E-02	2.286E-02	2.316E-02	2.359E-02	2.417E-02	2.489E-02	2.576E-02	2.679E-02
3.35E 02--1.11E 01	1.452E-01	1.454E-01	1.459E-01	1.470E-01	1.484E-01	1.503E-01	1.526E-01	1.553E-01	1.583E-01
5.83E 04--3.35E 02	1.239E-01	1.240E-01	1.244E-01	1.250E-01	1.259E-01	1.271E-01	1.285E-01	1.301E-01	1.319E-01
1.01E 04--5.83E 04	7.336E 00	7.340E 00	7.358E 00	7.392E 00	7.439E 00	7.498E 00	7.570E 00	7.651E 00	7.740E 00
2.90E 05--1.01E 04	3.133E 01	3.135E 01	3.142E 01	3.155E 01	3.173E 01	3.196E 01	3.23E 01	3.254E 01	3.288E 01
1.07E 05--2.90E 05	9.058E 01	9.063E 01	9.082E 01	9.117E 01	9.166E 01	9.229E 01	9.303E 01	9.387E 01	9.479E 01
3.06E 06--1.07E 05	2.400E 02	2.401E 02	2.406E 02	2.414E 02	2.426E 02	2.442E 02	2.460E 02	2.481E 02	2.503E 02
1.12E 06--3.06E 06	6.372E 02	6.375E 02	6.387E 02	6.409E 02	6.439E 02	6.478E 02	6.524E 02	6.575E 02	6.631E 02
4.14E 07--1.12E 06	1.384E 03	1.384E 03	1.387E 03	1.391E 03	1.397E 03	1.405E 03	1.415E 03	1.425E 03	1.437E 03
0.0	1.994E 03	1.995E 03	1.999E 03	2.005E 03	2.014E 03	2.025E 03	2.036E 03	2.049E 03	2.063E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	6.800E-04	9.857E-04	1.579E-03	2.331E-03	5.625E-03	1.867E-02	8.750E-02	8.694E-01	2.041E-01
8.19E 00--1.00E 01	5.412E-03	5.092E-03	7.731E-03	8.747E-03	1.343E-02	2.034E-02	3.708E-02	7.853E-02	9.308E-02
6.36E 00--8.19E 00	2.496E-03	3.922E-03	3.786E-03	5.595E-03	6.728E-03	1.050E-02	1.654E-02	3.203E-02	5.540E-02
4.97E 00--6.36E 00	3.460E-03	3.517E-03	4.699E-03	5.436E-03	7.483E-03	1.014E-02	1.567E-02	2.748E-02	5.503E-02
4.07E 00--4.97E 00	4.389E-03	4.374E-03	5.816E-03	6.625E-03	9.045E-03	1.205E-02	1.835E-02	3.173E-02	6.831E-02
3.01E 00--4.07E 00	4.889E-03	4.880E-03	6.590E-03	7.462E-03	1.023E-02	1.347E-02	2.023E-02	3.397E-02	7.713E-02
2.46E 00--3.01E 00	8.360E-03	8.468E-03	1.105E-02	1.264E-02	1.697E-02	2.231E-02	3.330E-02	6.14E-02	1.306E-01
2.35E 00--2.46E 00	9.355E-03	1.411E-02	1.380E-02	1.599E-02	2.257E-02	3.208E-02	4.485E-02	7.544E-02	1.803E-01
1.83E 00--2.35E 00	8.832E-03	1.281E-02	1.229E-02	1.693E-02	1.878E-02	2.559E-02	3.371E-02	5.303E-02	1.542E-01
1.11E 00--1.83E 00	1.045E-02	1.427E-02	1.386E-02	1.786E-02	1.930E-02	2.456E-02	2.999E-02	4.190E-02	1.673E-01
5.50E 01--1.11E 00	1.715E-02	2.132E-02	2.171E-02	2.562E-02	3.261E-02	3.770E-02	4.746E-02	6.743E-02	2.542E-01
1.11E 01--5.50E 01	2.739E-02	2.982E-02	3.052E-02	3.292E-02	3.424E-02	3.672E-02	3.867E-02	4.143E-02	4.569E-01
3.35E 02--1.11E 01	1.582E-01	1.675E-01	1.673E-01	1.734E-01	1.752E-01	1.792E-01	1.811E-01	1.830E-01	2.024E 00
5.83E 04--3.35E 02	1.338E-01	1.338E-01	1.377E-01	1.396E-01	1.413E-01	1.428E-01	1.439E-01	1.445E-01	1.675E 00
1.01E 04--5.83E 04	7.833E 00	7.930E 00	8.024E 00	8.114E 00	8.194E 00	8.261E 00	8.310E 00	8.339E 00	9.807E 00
2.90E 05--1.01E 04	3.323E 01	3.359E 01	3.394E 01	3.428E 01	3.457E 01	3.481E 01	3.499E 01	3.509E 01	4.160E 02
1.07E 05--2.90E 05	9.575E 01	9.672E 01	9.766E 01	9.855E 01	9.933E 01	9.997E 01	1.004E 02	1.007E 02	1.199E 03
3.06E 06--1.07E 05	2.526E 02	2.550E 02	2.573E 02	2.594E 02	2.613E 02	2.628E 02	2.640E 02	2.648E 02	3.164E 03
1.12E 06--3.06E 06	6.689E 02	6.747E 02	6.804E 02	6.856E 02	6.902E 02	6.940E 02	6.967E 02	6.983E 02	8.377E 03
4.14E 07--1.12E 06	1.449E 03	1.461E 03	1.472E 03	1.483E 03	1.492E 03	1.500E 03	1.505E 03	1.508E 03	1.814E 04
0.0	2.078E 03	2.094E 03	2.109E 03	2.122E 03	2.134E 03	2.143E 03	2.150E 03	2.153E 03	2.605E 04

4 PI R\*\*2 FLUENCE AT 300.0 METERS

10.00 TO 12.20 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9445	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2216	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	-5.344E-04	-4.351E-04	-1.633E-04	2.841E-05	2.429E-04	1.110E-04	-4.382E-05	-3.706E-05	1.164E-04
8.19E 00---1.00E 01	1.240E-03	1.211E-03	1.113E-03	1.003E-03	9.967E-04	1.177E-03	1.982E-03	2.187E-03	2.926E-03
6.36E 00---8.19E 00	2.281E-03	2.256E-03	1.666E-03	2.035E-03	1.931E-03	1.901E-03	1.978E-03	2.167E-03	2.457E-03
4.97E 00---6.36E 00	1.772E-03	1.775E-03	1.700E-03	1.831E-03	1.914E-03	2.053E-03	2.257E-03	2.530E-03	2.878E-03
3.01E 00---4.97E 00	2.508E-03	2.518E-03	2.586E-03	2.636E-03	2.751E-03	2.908E-03	3.117E-03	3.391E-03	3.751E-03
2.46E 00---3.01E 00	3.048E-03	3.048E-03	3.070E-03	3.116E-03	3.192E-03	3.310E-03	3.483E-03	3.732E-03	4.086E-03
2.35E 00---2.46E 00	5.459E-03	5.459E-03	5.496E-03	5.572E-03	5.696E-03	5.890E-03	6.182E-03	6.615E-03	7.244E-03
1.83E 00---2.35E 00	7.667E-03	7.679E-03	7.727E-03	7.831E-03	8.030E-03	8.345E-03	8.507E-03	9.237E-03	1.059E-02
1.11E 00---1.83E 00	9.211E-03	9.238E-03	9.349E-03	9.567E-03	9.896E-03	1.035E-02	1.096E-02	1.175E-02	1.276E-02
5.50E 01---5.50E 01	1.739E-02	1.743E-02	1.761E-02	1.795E-02	1.849E-02	1.920E-02	2.014E-02	2.133E-02	2.283E-02
5.83E 04---3.35E-02	3.253E-02	3.259E-02	3.284E-02	3.332E-02	3.400E-02	3.491E-02	3.604E-02	3.742E-02	3.903E-02
5.83E 04---3.35E-02	2.044E-01	2.045E-01	2.045E-01	2.065E-01	2.083E-01	2.107E-01	2.135E-01	2.167E-01	2.203E-01
1.01E 04---5.83E-04	1.242E 01	1.243E 01	1.246E 01	1.254E 01	1.263E 01	1.276E 01	1.291E 01	1.309E 01	1.328E 01
2.90E 05---2.90E-05	5.390E 01	5.394E 01	5.409E 01	5.437E 01	5.477E 01	5.528E 01	5.588E 01	5.657E 01	5.732E 01
1.07E 05---1.07E-05	1.576E 02	1.578E 02	1.582E 02	1.590E 02	1.601E 02	1.615E 02	1.632E 02	1.651E 02	1.672E 02
3.06E 06---3.06E-06	4.229E 02	4.232E 02	4.243E 02	4.263E 02	4.291E 02	4.327E 02	4.370E 02	4.419E 02	4.472E 02
1.12E 06---1.12E-06	1.133E 03	1.134E 03	1.137E 03	1.142E 03	1.149E 03	1.158E 03	1.169E 03	1.182E 03	1.195E 03
4.14E 07---4.14E-07	2.480E 03	2.481E 03	2.487E 03	2.498E 03	2.513E 03	2.533E 03	2.555E 03	2.581E 03	2.609E 03
0.0	3.605E 03	3.607E 03	3.616E 03	3.631E 03	3.652E 03	3.677E 03	3.707E 03	3.739E 03	3.775E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	4.853E-04	9.658E-04	1.278E-03	2.029E-03	4.781E-03	1.429E-02	5.246E-02	5.297E-01	1.284E-01
8.19E 00---1.00E 01	3.557E-03	4.787E-03	5.645E-03	7.697E-03	1.083E-02	1.779E-02	3.348E-02	7.808E-02	7.930E-02
6.36E 00---8.19E 00	2.964E-03	3.251E-03	4.161E-03	5.121E-03	7.124E-03	1.035E-02	1.719E-02	3.418E-02	5.408E-02
4.97E 00---6.36E 00	3.255E-03	3.958E-03	4.679E-03	5.981E-03	7.802E-03	1.098E-02	1.671E-02	2.981E-02	5.756E-02
3.01E 00---4.97E 00	4.147E-03	4.970E-03	5.781E-03	7.280E-03	9.296E-03	1.277E-02	1.883E-02	3.244E-02	7.100E-02
2.46E 00---3.01E 00	4.471E-03	5.402E-03	6.257E-03	7.902E-03	1.000E-02	1.356E-02	1.945E-02	3.206E-02	7.666E-02
2.35E 00---2.46E 00	8.018E-03	9.560E-03	1.121E-02	1.409E-02	1.797E-02	2.449E-02	3.593E-02	6.145E-02	1.381E-01
1.83E 00---2.35E 00	1.245E-02	1.380E-02	1.731E-02	2.091E-02	2.739E-02	3.444E-02	5.324E-02	8.934E-02	2.041E-01
1.11E 00---1.83E 00	1.187E-02	1.284E-02	1.564E-02	1.812E-02	2.262E-02	2.824E-02	3.810E-02	5.720E-02	1.754E-01
5.50E 01---5.50E 01	1.442E-02	1.531E-02	1.789E-02	1.997E-02	2.364E-02	2.766E-02	3.399E-02	4.396E-02	1.971E-01
5.83E 04---3.35E-02	2.497E-02	2.670E-02	2.989E-02	3.287E-02	3.721E-02	4.193E-02	4.842E-02	5.738E-02	3.321E-01
1.01E 04---5.83E-04	4.111E-02	4.284E-02	4.585E-02	4.775E-02	5.060E-02	5.317E-02	5.590E-02	5.821E-02	5.200E-01
2.90E 05---2.90E-05	2.634E-01	2.671E-01	2.755E-01	2.807E-01	2.879E-01	2.925E-01	2.972E-01	2.994E-01	3.278E 00
1.07E 05---1.07E-05	2.241E-01	2.280E-01	2.332E-01	2.358E-01	2.392E-01	2.421E-01	2.443E-01	2.455E-01	2.804E 00
3.06E 06---3.06E-06	1.348E 01	1.369E 01	1.389E 01	1.409E 01	1.426E 01	1.441E 01	1.452E 01	1.458E 01	1.686E 02
1.12E 06---1.12E-06	5.812E 01	5.854E 01	5.974E 01	6.050E 01	6.117E 01	6.173E 01	6.214E 01	6.238E 01	7.272E 02
4.14E 07---4.14E-07	1.695E 02	1.717E 02	1.739E 02	1.760E 02	1.779E 02	1.794E 02	1.806E 02	1.812E 02	2.120E 03
0.0	4.528E 02	4.584E 02	4.640E 02	4.692E 02	4.738E 02	4.776E 02	4.804E 02	4.820E 02	5.665E 03
	1.209E 03	1.224E 03	1.238E 03	1.251E 03	1.262E 03	1.272E 03	1.283E 03	1.283E 03	1.513E 04
	2.639E 03	2.669E 03	2.698E 03	2.725E 03	2.749E 03	2.769E 03	2.783E 03	2.791E 03	3.303E 04
	3.612E 03	3.651E 03	3.689E 03	3.725E 03	3.755E 03	3.780E 03	3.796E 03	4.005E 03	4.774E 04



10.00 TO 12.20 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.00E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-3.390E-04	-2.756E-04	-8.671E-05	3.514E-05	1.695E-04	6.662E-05	-3.562E-05	-1.819E-05	1.040E-04
8.19E 00--1.00E 01	8.308E-04	8.136E-04	7.569E-04	6.986E-04	7.120E-04	8.537E-04	1.152E-03	1.593E-03	2.138E-03
6.36E 00--8.19E 00	1.703E-03	1.685E-03	1.622E-03	1.535E-03	1.476E-03	1.384E-03	1.580E-03	1.769E-03	2.040E-03
4.97E 00--6.36E 00	1.550E-03	1.552E-03	1.602E-03	1.602E-03	1.680E-03	1.811E-03	2.004E-03	2.261E-03	2.585E-03
4.07E 00--4.97E 00	2.271E-03	2.280E-03	2.317E-03	2.389E-03	2.495E-03	2.640E-03	2.831E-03	3.083E-03	3.415E-03
3.01E 00--4.07E 00	2.724E-03	2.728E-03	2.745E-03	2.781E-03	2.844E-03	2.943E-03	3.093E-03	3.312E-03	3.627E-03
2.46E 00--3.01E 00	4.834E-03	4.842E-03	4.875E-03	4.945E-03	5.061E-03	5.242E-03	5.517E-03	5.928E-03	6.530E-03
2.35E 00--2.46E 00	6.886E-03	6.898E-03	6.922E-03	7.070E-03	7.274E-03	7.501E-03	8.097E-03	8.828E-03	9.877E-03
1.83E 00--2.35E 00	6.642E-03	6.661E-03	6.744E-03	6.912E-03	7.175E-03	7.559E-03	8.096E-03	8.823E-03	9.791E-03
1.11E 00--1.83E 00	9.044E-03	9.071E-03	9.184E-03	9.405E-03	9.738E-03	1.020E-02	1.082E-02	1.162E-02	1.264E-02
5.50E 01--1.11E 00	1.819E-02	1.824E-02	1.865E-02	1.884E-02	1.942E-02	2.022E-02	2.127E-02	2.261E-02	2.428E-02
1.11E 01--5.50E 01	3.704E-02	3.711E-02	3.742E-02	3.800E-02	3.882E-02	3.992E-02	4.130E-02	4.297E-02	4.492E-02
3.35E 02--1.11E 01	2.831E-01	2.834E-01	2.848E-01	2.874E-01	2.911E-01	2.959E-01	3.017E-01	3.084E-01	3.160E-01
5.83E 04--3.35E 02	2.566E-01	2.568E-01	2.578E-01	2.596E-01	2.622E-01	2.655E-01	2.694E-01	2.740E-01	2.790E-01
1.01E 04--5.83E 04	1.590E 01	1.591E 01	1.597E 01	1.607E 01	1.622E 01	1.640E 01	1.662E 01	1.688E 01	1.716E 01
2.90E 05--1.01E 04	6.989E 01	6.995E 01	7.018E 01	7.060E 01	7.119E 01	7.195E 01	7.286E 01	7.389E 01	7.503E 01
1.07E 05--2.90E 05	2.063E 02	2.065E 02	2.072E 02	2.084E 02	2.101E 02	2.122E 02	2.148E 02	2.178E 02	2.210E 02
3.06E 06--1.07E 05	5.595E 02	5.599E 02	5.616E 02	5.648E 02	5.692E 02	5.748E 02	5.815E 02	5.891E 02	5.975E 02
1.12E 06--3.06E 06	1.511E 03	1.512E 03	1.517E 03	1.525E 03	1.536E 03	1.551E 03	1.568E 03	1.588E 03	1.610E 03
4.14E 07--1.12E 06	3.331E 03	3.333E 03	3.342E 03	3.360E 03	3.384E 03	3.415E 03	3.452E 03	3.494E 03	3.539E 03
0.0	4.879E 03	4.882E 03	4.896E 03	4.921E 03	4.954E 03	4.996E 03	5.043E 03	5.097E 03	5.156E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00F 01--1.22E 01	4.090E-04	7.243E-04	9.368E-04	1.568E-03	3.752E-03	1.089E-02	3.535E-02	3.131E-01	8.075E-02
8.19E 00--1.00E 01	2.753E-03	3.391E-03	4.282E-03	5.677E-03	8.388E-03	1.394E-02	2.694E-02	6.546E-02	6.148E-02
6.36E 00--8.19E 00	2.378E-03	2.854E-03	3.490E-03	4.535E-03	6.256E-03	9.352E-03	1.546E-02	3.091E-02	4.641E-02
4.97E 00--6.36E 00	3.002E-03	3.536E-03	4.317E-03	5.468E-03	7.273E-03	1.020E-02	1.546E-02	2.717E-02	5.248E-02
4.07E 00--4.97E 00	3.871E-03	4.474E-03	5.368E-03	6.651E-03	8.609E-03	1.180E-02	1.692E-02	2.814E-02	6.460E-02
3.01E 00--4.07E 00	4.091E-03	4.712E-03	5.653E-03	6.967E-03	8.914E-03	1.180E-02	1.652E-02	2.589E-02	6.735E-02
2.46E 00--3.01E 00	1.135E-02	1.348E-02	1.638E-02	2.046E-02	2.679E-02	3.534E-02	5.274E-02	8.442E-02	1.266E-01
2.35E 00--2.46E 00	1.102E-02	1.277E-02	1.592E-02	1.905E-02	2.183E-02	2.746E-02	3.605E-02	5.234E-02	1.580E-01
1.83E 00--2.35E 00	1.388E-02	1.557E-02	1.751E-02	2.006E-02	2.315E-02	2.713E-02	3.226E-02	3.682E-02	1.935E-01
5.50E 01--1.11E 00	2.630E-02	2.888E-02	3.267E-02	3.555E-02	3.983E-02	4.492E-02	5.087E-02	5.832E-02	3.529E-01
1.11E 01--5.50E 01	4.713E-02	4.973E-02	5.246E-02	5.547E-02	5.850E-02	6.152E-02	6.421E-02	6.629E-02	5.984E-01
3.35E 02--1.11E 01	3.238E-01	3.333E-01	3.418E-01	3.505E-01	3.588E-01	3.663E-01	3.713E-01	3.746E-01	4.058E 00
5.83E 04--3.35E 02	2.844E-01	2.900E-01	2.967E-01	3.009E-01	3.058E-01	3.098E-01	3.129E-01	3.146E-01	3.556E 00
1.01E 04--5.83E 04	1.745E 01	1.776E 01	1.807E 01	1.836E 01	1.862E 01	1.883E 01	1.899E 01	1.909E 01	2.183E 00
2.90E 05--1.01E 04	7.624E 01	7.748E 01	7.871E 01	7.986E 01	8.090E 01	8.176E 01	8.240E 01	8.276E 01	9.535E 02
1.07E 05--2.90E 05	2.245E 02	2.280E 02	2.315E 02	2.347E 02	2.377E 02	2.401E 02	2.419E 02	2.429E 02	2.807E 03
3.06E 06--1.07E 05	6.063E 02	6.154E 02	6.243E 02	6.326E 02	6.400E 02	6.462E 02	6.507E 02	6.533E 02	7.583E 03
1.12E 06--3.06E 06	1.632E 03	1.656E 03	1.678E 03	1.700E 03	1.719E 03	1.734E 03	1.746E 03	1.753E 03	2.042E 04
4.14E 07--1.12E 06	3.588E 03	3.637E 03	3.685E 03	3.730E 03	3.770E 03	3.802E 03	3.827E 03	3.840E 03	4.486E 04
0.0	5.218E 03	5.283E 03	5.347E 03	5.406E 03	5.458E 03	5.499E 03	5.528E 03	5.543E 03	6.532E 04

## 10.00 TO 12.20 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-2.077E-04	-1.687E-04	-5.302E-05	2.570E-05	1.104E-04	3.893E-05	-2.411E-05	-4.847E-06	8.523E-05
8.19E 00--1.00E 01	5.384E-04	5.291E-04	4.989E-04	4.710E-04	4.903E-04	5.927E-04	7.996E-04	1.104E-03	1.485E-03
6.36E 00--8.19E 00	1.214E-03	1.202E-03	1.161E-03	1.106E-03	1.077E-03	1.101E-03	1.194E-03	1.359E-03	1.806E-03
4.97E 00--6.36E 00	1.261E-03	1.261E-03	1.272E-03	1.303E-03	1.307E-03	1.216E-03	1.650E-03	1.870E-03	2.175E-03
4.07E 00--4.97E 00	1.903E-03	1.910E-03	1.942E-03	2.003E-03	2.093E-03	2.216E-03	2.379E-03	2.592E-03	2.875E-03
3.01E 00--4.07E 00	2.262E-03	2.265E-03	2.278E-03	2.305E-03	2.354E-03	2.438E-03	2.554E-03	2.734E-03	2.995E-03
2.46E 00--3.01E 00	3.972E-03	3.972E-03	4.001E-03	4.061E-03	4.141E-03	4.318E-03	4.559E-03	4.918E-03	5.448E-03
2.35E 00--2.46E 00	5.701E-03	5.714E-03	5.767E-03	5.882E-03	6.076E-03	6.381E-03	6.839E-03	7.508E-03	8.465E-03
1.83E 00--2.35E 00	5.732E-03	5.749E-03	5.825E-03	5.978E-03	6.217E-03	6.565E-03	7.049E-03	7.706E-03	8.580E-03
1.11E 00--1.83E 00	8.076E-03	8.179E-03	8.381E-03	8.685E-03	9.110E-03	9.674E-03	1.041E-02	1.133E-02	1.243E-02
5.50E 01--1.11E 00	1.701E-02	1.704E-02	1.726E-02	1.765E-02	1.822E-02	1.901E-02	2.003E-02	2.135E-02	2.298E-02
1.11E 01--5.50E 01	3.698E-02	3.706E-02	3.738E-02	3.798E-02	3.885E-02	4.000E-02	4.144E-02	4.318E-02	4.523E-02
3.25E 02--1.11E 01	2.992E-01	2.992E-01	3.008E-01	3.037E-01	3.079E-01	3.133E-01	3.198E-01	3.274E-01	3.360E-01
5.83E 04--3.25E 02	2.759E-01	2.762E-01	2.773E-01	2.794E-01	2.824E-01	2.862E-01	2.907E-01	2.960E-01	3.019E-01
1.01E 04--5.83E 04	1.735E 01	1.737E 01	1.743E 01	1.756E 01	1.773E 01	1.795E 01	1.821E 01	1.851E 01	1.885E 01
2.90E 05--1.01E 04	7.702E 01	7.709E 01	7.737E 01	7.788E 01	7.859E 01	7.952E 01	8.061E 01	8.187E 01	8.326E 01
1.07E 05--2.90E 05	2.293E 02	2.293E 02	2.301E 02	2.316E 02	2.337E 02	2.363E 02	2.395E 02	2.432E 02	2.472E 02
3.06E 06--1.07E 05	6.266E 02	6.271E 02	6.291E 02	6.332E 02	6.386E 02	6.457E 02	6.540E 02	6.636E 02	6.741E 02
1.12E 06--3.06E 06	1.704E 03	1.705E 03	1.711E 03	1.721E 03	1.735E 03	1.755E 03	1.776E 03	1.801E 03	1.828E 03
4.14E 07--1.12E 06	3.777E 03	3.780E 03	3.792E 03	3.814E 03	3.845E 03	3.889E 03	3.932E 03	3.986E 03	4.045E 03
0.0	5.570E 03	5.574E 03	5.592E 03	5.624E 03	5.666E 03	5.719E 03	5.781E 03	5.851E 03	5.927E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	3.001E-04	5.228E-04	7.175E-04	1.156E-03	2.772E-03	7.905E-03	2.407E-02	1.835E-01	5.059E-02
8.19E 00--1.00E 01	1.907E-03	2.382E-03	3.009E-03	4.066E-03	6.127E-03	1.044E-02	2.042E-02	5.049E-02	4.506E-02
6.36E 00--8.19E 00	1.874E-03	2.249E-03	2.792E-03	3.664E-03	5.155E-03	7.811E-03	1.296E-02	2.565E-02	3.729E-02
4.97E 00--6.36E 00	2.497E-03	2.965E-03	3.633E-03	4.644E-03	6.221E-03	9.764E-03	1.319E-02	2.267E-02	4.415E-02
4.07E 00--4.97E 00	3.257E-03	3.789E-03	4.549E-03	5.664E-03	7.328E-03	9.886E-03	1.407E-02	2.254E-02	5.432E-02
3.01E 00--4.07E 00	3.370E-03	3.909E-03	4.674E-03	5.768E-03	7.330E-03	9.601E-03	1.309E-02	1.948E-02	5.501E-02
2.46E 00--3.01E 00	6.211E-03	7.312E-03	8.891E-03	1.119E-02	1.458E-02	1.981E-02	2.867E-02	4.755E-02	1.073E-01
2.35E 00--2.46E 00	9.820E-03	1.173E-02	1.443E-02	1.835E-02	2.408E-02	3.288E-02	4.776E-02	7.932E-02	1.719E-01
1.83E 00--2.35E 00	9.734E-03	1.124E-02	1.323E-02	1.586E-02	2.137E-02	2.821E-02	3.133E-02	4.384E-02	1.473E-01
1.11E 00--1.83E 00	1.250E-02	1.395E-02	1.576E-02	1.798E-02	2.071E-02	2.404E-02	2.810E-02	3.335E-02	1.725E-01
5.50E 01--1.11E 00	2.501E-02	2.747E-02	3.044E-02	3.396E-02	3.806E-02	4.275E-02	4.796E-02	5.368E-02	3.343E 01
1.11E 01--5.50E 01	4.758E-02	5.021E-02	5.310E-02	5.615E-02	5.926E-02	6.283E-02	6.690E-02	6.659E-02	6.039E 01
3.25E 02--1.11E 01	3.454E-01	3.551E-01	3.653E-01	3.751E-01	3.843E-01	3.921E-01	3.981E-01	4.036E-01	4.320E 00
5.83E 04--3.25E 02	3.081E-01	3.146E-01	3.211E-01	3.274E-01	3.330E-01	3.377E-01	3.412E-01	3.433E-01	3.820E 00
1.01E 04--5.83E 04	1.921E 01	1.957E 01	1.994E 01	2.029E 01	2.060E 01	2.086E 01	2.105E 01	2.116E 01	2.401E 02
2.90E 05--1.01E 04	8.473E 01	8.625E 01	8.775E 01	8.917E 01	9.044E 01	9.150E 01	9.228E 01	9.273E 01	1.059E 03
1.07E 05--2.90E 05	2.514E 02	2.538E 02	2.561E 02	2.642E 02	2.678E 02	2.709E 02	2.731E 02	2.744E 02	3.143E 03
3.06E 06--1.07E 05	6.853E 02	6.967E 02	7.079E 02	7.185E 02	7.279E 02	7.358E 02	7.416E 02	7.449E 02	8.567E 03
1.12E 06--3.06E 06	1.857E 03	1.916E 03	1.944E 03	1.944E 03	1.968E 03	1.988E 03	2.003E 03	2.012E 03	2.322E 04
4.14E 07--1.12E 06	4.107E 03	4.170E 03	4.235E 03	4.291E 03	4.343E 03	4.386E 03	4.418E 03	4.436E 03	5.135E 04
0.0	6.009E 03	6.093E 03	6.177E 03	6.255E 03	6.323E 03	6.378E 03	6.417E 03	6.438E 03	7.519E 04

## 10.00 TO 12.20 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8636	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-1.250E-04	-1.013E-04	-2.800E-05	2.190E-05	6.937E-05	2.267E-05	-1.478E-05	1.926E-06	6.513E-05
8.19E 00--1.00E 01	3.425E-04	3.374E-04	3.225E-04	3.111E-04	3.292E-04	3.998E-04	5.393E-04	7.440E-04	1.001E-03
6.36E 00--8.19E 00	8.416E-04	8.339E-04	8.372E-04	7.743E-04	7.622E-04	7.904E-04	8.708E-04	1.004E-03	1.182E-03
4.97E 00--6.36E 00	9.767E-04	9.780E-04	9.864E-04	1.012E-03	1.066E-03	1.159E-03	1.294E-03	1.473E-03	1.596E-03
4.07E 00--4.97E 00	1.516E-03	1.523E-03	1.548E-03	1.597E-03	1.670E-03	1.769E-03	1.899E-03	2.072E-03	2.300E-03
3.01E 00--4.07E 00	1.790E-03	1.792E-03	1.801E-03	1.821E-03	1.858E-03	1.918E-03	2.012E-03	2.153E-03	2.360E-03
2.46E 00--3.01E 00	3.097E-03	3.102E-03	3.126E-03	3.176E-03	3.259E-03	3.389E-03	3.587E-03	3.885E-03	4.323E-03
2.35E 00--2.46E 00	4.488E-03	4.499E-03	4.548E-03	4.651E-03	4.822E-03	5.087E-03	5.482E-03	6.054E-03	6.871E-03
1.83E 00--2.35E 00	6.677E-03	6.693E-03	6.758E-03	6.888E-03	7.091E-03	7.366E-03	7.797E-03	8.338E-03	9.093E-03
1.11E 00--1.83E 00	6.731E-03	6.752E-03	6.841E-03	7.012E-03	7.271E-03	7.633E-03	8.114E-03	8.738E-03	9.529E-03
5.50E 01--1.11E 00	1.479E-02	1.484E-02	1.502E-02	1.537E-02	1.588E-02	1.659E-02	1.752E-02	1.871E-02	2.019E-02
1.11E 01--5.50E 01	3.389E-02	3.397E-02	3.427E-02	3.484E-02	3.567E-02	3.676E-02	3.813E-02	3.978E-02	4.173E-02
3.35E 02--1.11E 01	2.864E-01	2.867E-01	2.883E-01	2.913E-01	2.954E-01	3.008E-01	3.074E-01	3.150E-01	3.237E-01
5.83E 04--3.35E 02	2.681E-01	2.684E-01	2.696E-01	2.717E-01	2.746E-01	2.787E-01	2.834E-01	2.888E-01	2.948E-01
1.01E 04--5.83E 04	1.706E 01	1.708E 01	1.715E 01	1.727E 01	1.745E 01	1.768E 01	1.796E 01	1.827E 01	1.862E 01
2.90E 05--1.01E 04	7.631E 01	7.639E 01	7.668E 01	7.722E 01	7.797E 01	7.895E 01	8.011E 01	8.145E 01	8.292E 01
1.07E 05--2.90E 05	2.283E 02	2.285E 02	2.294E 02	2.310E 02	2.332E 02	2.361E 02	2.395E 02	2.434E 02	2.477E 02
3.06E 06--1.07E 05	6.289E 02	6.295E 02	6.318E 02	6.360E 02	6.419E 02	6.495E 02	6.586E 02	6.692E 02	6.804E 02
1.12E 06--3.06E 06	1.719E 03	1.721E 03	1.727E 03	1.738E 03	1.754E 03	1.774E 03	1.798E 03	1.825E 03	1.855E 03
4.14E 07--1.12E 06	3.831E 03	3.834E 03	3.847E 03	3.872E 03	3.906E 03	3.949E 03	4.001E 03	4.060E 03	4.125E 03
0.0	5.680E 03	5.685E 03	5.704E 03	5.739E 03	5.786E 03	5.845E 03	5.913E 03	5.991E 03	6.077E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8636	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	2.114E-04	3.603E-04	4.975E-04	6.193E-04	1.970E-03	5.526E-03	1.616E-02	1.073E-01	3.155E-02
8.19E 00--1.00E 01	1.290E-03	1.617E-03	2.063E-03	2.823E-03	4.347E-03	7.561E-03	1.494E-02	3.707E-02	3.195E-02
6.36E 00--8.19E 00	1.407E-03	1.700E-03	2.129E-03	2.931E-03	4.045E-03	6.216E-03	1.035E-02	2.021E-02	2.868E-02
4.97E 00--6.36E 00	1.979E-03	2.358E-03	2.906E-03	3.741E-03	5.047E-03	7.138E-03	1.068E-02	1.793E-02	3.529E-02
4.07E 00--4.97E 00	2.611E-03	3.044E-03	3.666E-03	4.575E-03	5.924E-03	7.958E-03	1.118E-02	1.721E-02	4.343E-02
3.01E 00--4.07E 00	2.659E-03	3.085E-03	3.691E-03	4.547E-03	5.750E-03	7.451E-03	9.934E-03	1.410E-02	4.293E-02
2.46E 00--3.01E 00	4.958E-03	5.873E-03	7.191E-03	9.102E-03	1.192E-02	1.621E-02	2.330E-02	3.778E-02	8.623E-02
2.35E 00--2.46E 00	8.027E-03	9.665E-03	1.200E-02	1.538E-02	2.034E-02	2.800E-02	4.073E-02	6.444E-02	1.427E-01
1.83E 00--2.35E 00	8.089E-03	9.349E-03	1.103E-02	1.324E-02	1.617E-02	2.012E-02	2.571E-02	3.484E-02	1.217E-01
1.11E 00--1.83E 00	2.025E-02	2.424E-02	2.690E-02	3.005E-02	3.368E-02	3.773E-02	4.205E-02	4.632E-02	2.939E-01
5.50E 01--1.11E 00	4.396E-02	4.647E-02	4.919E-02	5.207E-02	5.495E-02	5.769E-02	5.998E-02	6.151E-02	5.567E-01
1.11E 01--5.50E 01	3.331E-01	3.430E-01	3.532E-01	3.631E-01	3.725E-01	3.801E-01	3.860E-01	3.895E-01	3.916E 00
5.83E 04--3.35E 02	3.012E-01	3.079E-01	3.146E-01	3.210E-01	3.267E-01	3.316E-01	3.352E-01	3.379E-01	3.395E 00
1.01E 04--5.83E 04	1.900E 01	1.939E 01	1.977E 01	2.013E 01	2.046E 01	2.074E 01	2.094E 01	2.106E 01	2.105E 02
2.90E 05--1.01E 04	8.449E 01	8.610E 01	8.770E 01	8.921E 01	9.057E 01	9.173E 01	9.253E 01	9.301E 01	1.056E 03
1.07E 05--2.90E 05	2.522E 02	2.569E 02	2.616E 02	2.660E 02	2.699E 02	2.732E 02	2.756E 02	2.770E 02	3.153E 03
3.06E 06--1.07E 05	6.925E 02	7.049E 02	7.172E 02	7.288E 02	7.392E 02	7.478E 02	7.541E 02	7.578E 02	8.656E 03
1.12E 06--3.06E 06	1.887E 03	1.920E 03	1.952E 03	2.010E 03	2.032E 03	2.032E 03	2.045E 03	2.058E 03	2.359E 04
4.14E 07--1.12E 06	4.194E 03	4.265E 03	4.334E 03	4.400E 03	4.458E 03	4.506E 03	4.542E 03	4.562E 03	5.243E 04
0.0	6.168E 03	6.263E 03	6.357E 03	6.445E 03	6.522E 03	6.583E 03	6.627E 03	6.652E 03	7.716E 04

## 10.00 10 12.20 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 900.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0000	ANGLE 3 MU=0.0000	ANGLE 4 MU=0.0000	ANGLE 5 MU=0.0000	ANGLE 6 MU=0.0000	ANGLE 7 MU=0.0000	ANGLE 8 MU=0.0000	ANGLE 9 MU=0.0000
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-2.580E-05	-2.084E-05	-5.267E-06	6.409E-06	1.556E-05	4.678E-05	2.314E-06	2.375E-06	2.445E-05
8.19E 00--1.00E 01	8.196E-05	8.174E-05	8.137E-05	8.298E-05	9.084E-05	1.066E-04	1.478E-04	2.039E-04	2.768E-04
6.36E 00--8.19E 00	2.548E-04	2.530E-04	2.499E-04	2.438E-04	2.438E-04	2.410E-04	2.977E-04	3.525E-04	4.236E-04
4.97E 00--6.36E 00	3.871E-04	3.877E-04	3.913E-04	4.025E-04	4.266E-04	4.678E-04	5.274E-04	6.049E-04	7.013E-04
4.07E 00--4.97E 00	6.426E-04	6.452E-04	6.544E-04	6.775E-04	7.087E-04	7.515E-04	8.080E-04	8.827E-04	9.826E-04
3.01E 00--4.07E 00	7.467E-04	7.473E-04	7.503E-04	7.572E-04	7.707E-04	7.941E-04	8.321E-04	8.904E-04	9.769E-04
2.46E 00--3.01E 00	1.248E-03	1.251E-03	1.251E-03	1.285E-03	1.323E-03	1.363E-03	1.473E-03	1.613E-03	1.816E-03
2.35E 00--2.46E 00	1.840E-03	1.847E-03	1.874E-03	1.979E-03	2.018E-03	2.053E-03	2.349E-03	2.631E-03	3.030E-03
1.83E 00--2.35E 00	2.088E-03	2.096E-03	2.129E-03	2.13E-03	2.292E-03	2.435E-03	2.633E-03	2.901E-03	3.258E-03
1.11E 00--1.83E 00	3.154E-03	3.164E-03	3.207E-03	3.21E-03	3.416E-03	3.592E-03	3.825E-03	4.129E-03	4.513E-03
5.50E-01--1.11E 00	7.523E-03	7.546E-03	7.646E-03	7.836E-03	8.118E-03	8.507E-03	9.015E-03	9.665E-03	1.048E-02
1.11E-01--5.50E-01	1.923E-02	1.928E-02	1.946E-02	1.981E-02	2.031E-02	2.097E-02	2.180E-02	2.281E-02	2.400E-02
3.35E-02--1.11E-01	1.781E-01	1.784E-01	1.795E-01	1.814E-01	1.843E-01	1.879E-01	1.924E-01	1.976E-01	2.035E-01
5.83E-04--3.35E-02	1.715E-01	1.717E-01	1.725E-01	1.740E-01	1.762E-01	1.789E-01	1.824E-01	1.860E-01	1.903E-01
1.01E-04--5.83E-04	1.117E 01	1.118E 01	1.123E 01	1.132E 01	1.145E 01	1.162E 01	1.182E 01	1.205E 01	1.231E 01
2.90E-05--1.01E-04	5.073E 01	5.078E 01	5.103E 01	5.140E 01	5.196E 01	5.268E 01	5.352E 01	5.450E 01	5.565E 01
1.07E-05--2.90E-05	1.536E 02	1.537E 02	1.544E 02	1.556E 02	1.573E 02	1.594E 02	1.620E 02	1.650E 02	1.683E 02
3.06E-06--1.07E-05	4.291E 02	4.295E 02	4.313E 02	4.346E 02	4.392E 02	4.450E 02	4.521E 02	4.602E 02	4.691E 02
1.12E-06--3.06E-06	1.186E 03	1.187E 03	1.192E 03	1.201E 03	1.213E 03	1.229E 03	1.249E 03	1.270E 03	1.293E 03
4.14E-07--1.12E-06	2.670E 03	2.673E 03	2.683E 03	2.702E 03	2.730E 03	2.765E 03	2.806E 03	2.854E 03	2.906E 03
0.0	4.004E 03	4.008E 03	4.023E 03	4.051E 03	4.089E 03	4.137E 03	4.193E 03	4.257E 03	4.327E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	6.290E-05	1.023E-04	1.453E-04	2.535E-04	6.112E-04	1.642E-03	4.450E-03	2.130E-02	7.464E-03
8.19E 00--1.00E 01	3.614E-04	4.605E-04	6.013E-04	8.607E-04	1.403E-03	2.565E-03	5.165E-03	1.253E-02	1.019E-02
6.36E 00--8.19E 00	5.118E-04	6.290E-04	8.073E-04	1.111E-03	1.653E-03	2.628E-03	4.471E-03	8.291E-03	1.119E-02
4.97E 00--6.36E 00	8.237E-04	9.909E-04	1.238E-03	1.622E-03	2.226E-03	3.176E-03	4.65E-03	7.398E-03	1.502E-02
4.07E 00--4.97E 00	1.120E-03	1.313E-03	1.522E-03	1.998E-03	2.589E-03	3.443E-03	4.67E-03	6.577E-03	1.852E-02
3.01E 00--4.07E 00	1.102E-03	1.281E-03	1.521E-03	1.876E-03	2.341E-03	2.958E-03	3.759E-03	4.797E-03	1.735E-02
2.46E 00--3.01E 00	2.111E-03	2.37E 03	3.152E-03	4.045E-03	5.352E-03	7.301E-03	1.033E-02	1.576E-02	3.725E-02
2.35E 00--2.46E 00	3.598E-03	4.08E-03	5.581E-03	7.305E-03	9.884E-03	1.386E-02	2.032E-02	3.253E-02	6.59E-02
1.83E 00--2.35E 00	3.730E-03	4.347E-03	5.154E-03	6.204E-03	7.564E-03	9.322E-03	1.165E-02	1.464E-02	5.586E-02
1.11E 00--1.83E 00	4.992E-03	5.583E-03	6.304E-03	7.168E-03	8.175E-03	9.302E-03	1.049E-02	1.153E-02	6.780E-02
5.50E-01--1.11E 00	1.148E-02	1.269E-02	1.484E-02	1.583E-02	1.774E-02	1.979E-02	2.181E-02	2.345E-02	1.529E-01
1.11E-01--5.50E-01	2.536E-02	2.67E-02	2.852E-02	3.024E-02	3.195E-02	3.353E-02	3.481E-02	3.561E-02	3.208E-01
3.35E-02--1.11E-01	2.099E-01	2.166E-01	2.235E-01	2.303E-01	2.364E-01	2.417E-01	2.457E-01	2.481E-01	2.624E 00
5.83E-04--3.35E-02	1.948E-01	1.955E-01	2.042E-01	2.088E-01	2.128E-01	2.163E-01	2.186E-01	2.203E-01	2.434E 00
1.01E-04--5.83E-04	1.258E 01	1.266E 01	1.315E 01	1.341E 01	1.366E 01	1.386E 01	1.401E 01	1.409E 01	1.572E 02
2.90E-05--1.01E-04	5.683E 01	5.804E 01	5.924E 01	6.038E 01	6.140E 01	6.226E 01	6.289E 01	6.325E 01	7.099E 02
1.07E-05--2.90E-05	1.718E 02	1.754E 02	1.789E 02	1.823E 02	1.854E 02	1.879E 02	1.898E 02	1.908E 02	2.146E 03
3.06E-06--1.07E-05	4.786E 02	4.883E 02	4.993E 02	5.071E 02	5.153E 02	5.221E 02	5.272E 02	5.302E 02	5.579E 03
1.12E-06--3.06E-06	1.319E 03	1.345F 03	1.371E 03	1.395E 03	1.417E 03	1.435E 03	1.447E 03	1.457E 03	1.648E 04
4.14E-07--1.12E-06	2.962E 03	3.020E 03	3.076E 03	3.130E 03	3.178E 03	3.218E 03	3.247E 03	3.264E 03	3.702E 04
0.0	4.403E 03	4.481E 03	4.558E 03	4.631E 03	4.696E 03	4.748E 03	4.781E 03	4.806E 03	5.505E 04

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-5.141E-06	-4.138E-06	-9.451E-07	1.537E-06	3.281E-06	1.040E-06	-1.336E-07	1.312E-06	6.967E-06
8.19E 00--1.00E 01	1.852E-05	1.868E-05	1.933E-05	2.062E-05	2.307E-05	2.802E-05	3.712E-05	5.147E-05	7.077E-05
6.36E 00--8.19E 00	7.151E-05	7.112E-05	6.992E-05	6.930E-05	7.160E-05	7.870E-05	9.172E-05	1.106E-04	1.347E-04
4.97E 00--6.36E 00	1.341E-04	1.343E-04	1.357E-04	1.400E-04	1.490E-04	1.640E-04	1.864E-04	2.149E-04	2.502E-04
4.07E 00--4.97E 00	2.339E-04	2.349E-04	2.390E-04	2.468E-04	2.582E-04	2.739E-04	2.948E-04	3.224E-04	3.595E-04
3.01E 00--4.07E 00	2.688E-04	2.690E-04	2.699E-04	2.721E-04	2.766E-04	2.847E-04	2.981E-04	3.190E-04	3.502E-04
2.46E 00--3.01E 00	4.380E-04	4.390E-04	4.434E-04	4.523E-04	4.670E-04	4.903E-04	5.259E-04	5.792E-04	6.576E-04
2.35E 00--2.46E 00	6.543E-04	6.570E-04	6.686E-04	6.917E-04	7.282E-04	7.825E-04	8.618E-04	9.744E-04	1.134E-03
1.83E 00--2.35E 00	7.888E-04	7.919E-04	8.052E-04	8.310E-04	8.706E-04	9.278E-04	1.007E-03	1.113E-03	1.255E-03
1.11E 00--1.83E 00	1.227E-03	1.231E-03	1.248E-03	1.281E-03	1.334E-03	1.401E-03	1.494E-03	1.614E-03	1.766E-03
5.50E 01--1.11E 00	3.080E-03	3.090E-03	3.133E-03	3.213E-03	3.345E-03	3.499E-03	3.716E-03	3.994E-03	4.342E-03
1.11E 01--5.50E 01	8.426E-03	8.445E-03	8.531E-03	8.687E-03	8.914E-03	9.217E-03	9.595E-03	1.005E-02	1.059E-02
3.35E 02--1.11E 01	8.247E-02	8.259E-02	8.312E-02	8.407E-02	8.545E-02	8.722E-02	8.937E-02	9.191E-02	9.475E-02
5.83E 04--3.35E 02	8.070E-02	8.079E-02	8.120E-02	8.194E-02	8.299E-02	8.435E-02	8.597E-02	8.786E-02	8.995E-02
1.01E 04--5.83E 04	5.324E 00	5.330E 00	5.356E 00	5.402E 00	5.467E 00	5.551E 00	5.652E 00	5.769E 00	5.898E 00
2.90E 05--1.01E 04	2.440E 01	2.443E 01	2.454E 01	2.474E 01	2.503E 01	2.540E 01	2.584E 01	2.635E 01	2.691E 01
1.07E 05--2.90E 05	7.439E 01	7.447E 01	7.480E 01	7.541E 01	7.628E 01	7.738E 01	7.871E 01	8.025E 01	8.193E 01
3.06E 06--1.07E 05	2.096E 02	2.098E 02	2.107E 02	2.124E 02	2.148E 02	2.178E 02	2.215E 02	2.257E 02	2.303E 02
1.12E 06--3.06E 06	5.829E 02	5.835E 02	5.860E 02	5.906E 02	5.970E 02	6.053E 02	6.153E 02	6.267E 02	6.393E 02
4.14E 07--1.12E 06	1.320E 03	1.322E 03	1.327E 03	1.337E 03	1.352E 03	1.370E 03	1.392E 03	1.418E 03	1.445E 03
0.0	1.933E 03	1.935E 03	1.950E 03	1.964E 03	1.980E 03	2.003E 03	2.044E 03	2.128E 03	2.165E 03
ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	1.614E-05	1.577E-05	1.538E-05	1.496E-05	1.455E-04	1.413E-04	1.370E-04	1.327E-04	1.284E-04
8.19E 00--1.00E 01	9.388E-05	1.218E-04	1.633E-04	2.437E-04	4.166E-04	7.893E-04	1.102E-03	1.602E-03	2.968E-03
6.36E 00--8.19E 00	1.649E-04	2.056E-04	2.699E-04	3.826E-04	5.874E-04	9.575E-04	1.625E-03	2.934E-03	5.478E-03
4.97E 00--6.36E 00	2.923E-04	3.579E-04	4.520E-04	5.998E-04	8.325E-04	1.194E-03	1.749E-03	2.628E-03	5.478E-03
4.07E 00--4.97E 00	4.108E-04	4.857E-04	5.890E-04	7.415E-04	9.598E-04	1.266E-03	1.800E-03	2.224E-03	6.764E-03
3.01E 00--4.07E 00	3.955E-04	4.566E-04	5.488E-04	6.687E-04	8.264E-04	1.025E-03	1.262E-03	1.516E-03	6.120E-03
2.46E 00--3.01E 00	7.718E-04	9.372E-04	1.176E-03	1.524E-03	2.030E-03	2.774E-03	3.833E-03	5.652E-03	1.376E-02
2.35E 00--2.46E 00	1.341E-03	1.688E-03	2.167E-03	2.882E-03	3.967E-03	5.654E-03	8.368E-03	1.316E-02	2.605E-02
1.83E 00--2.35E 00	1.442E-03	1.687E-03	2.307E-03	2.819E-03	3.944E-03	5.602E-03	8.368E-03	1.316E-02	2.605E-02
1.11E 00--1.83E 00	1.956E-03	2.188E-03	2.470E-03	2.803E-03	3.183E-03	3.595E-03	3.998E-03	4.344E-03	4.640E-02
5.50E 01--1.11E 00	4.769E-03	5.287E-03	5.903E-03	6.617E-03	7.411E-03	8.247E-03	9.034E-03	9.618E-03	6.342E-02
1.11E 01--5.50E 01	1.121E-02	1.190E-02	1.265E-02	1.343E-02	1.419E-02	1.489E-02	1.545E-02	1.580E-02	1.418E-01
3.35E 02--1.11E 01	9.786E-02	1.011E-01	1.045E-01	1.077E-01	1.107E-01	1.133E-01	1.152E-01	1.163E-01	1.223E 00
5.83E 04--3.35E 02	9.221E-02	9.454E-02	9.681E-02	9.910E-02	1.011E-01	1.028E-01	1.041E-01	1.048E-01	1.152E 00
6.036E 00--5.83E 04	6.178E 00	6.178E 00	6.321E 00	6.456E 00	6.577E 00	6.679E 00	6.754E 00	6.798E 00	7.538E 01
2.90E 05--1.01E 04	2.751E 01	2.813E 01	2.874E 01	2.932E 01	2.985E 01	3.028E 01	3.060E 01	3.079E 01	3.436E 02
1.07E 05--2.90E 05	8.374E 01	8.559E 01	8.744E 01	8.919E 01	9.075E 01	9.206E 01	9.303E 01	9.358E 01	1.046E 03
3.06E 06--1.07E 05	2.353E 02	2.404E 02	2.454E 02	2.502E 02	2.545E 02	2.581E 02	2.607E 02	2.622E 02	2.939E 03
1.12E 06--3.06E 06	6.527E 02	6.665E 02	6.802E 02	6.931E 02	7.054E 02	7.143E 02	7.214E 02	7.255E 02	8.153E 03
4.14E 07--1.12E 06	1.475E 03	1.506E 03	1.536E 03	1.564E 03	1.590E 03	1.611E 03	1.627E 03	1.636E 03	1.843E 04
0.0	2.206E 03	2.248E 03	2.289E 03	2.329E 03	2.363E 03	2.391E 03	2.412E 03	2.423E 03	2.757E 04

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	-1.010E-06	-8.100E-07	-1.679E-07	3.516E-07	6.764E-07	2.890E-07	1.582E-08	4.243E-07	1.780E-06
8.19E 00--1.00E 01	4.036E-06	4.121E-06	4.434E-06	4.920E-06	5.589E-06	6.275E-06	8.913E-06	1.246E-05	1.739E-05
6.36E 00--8.19E 00	1.929E-05	1.922E-05	1.903E-05	1.911E-05	2.010E-05	2.252E-05	2.671E-05	3.267E-05	4.026E-05
4.97E 00--6.36E 00	4.319E-05	4.327E-05	4.375E-05	4.522E-05	4.832E-05	5.354E-05	6.097E-05	7.033E-05	8.235E-05
4.07E 00--4.97E 00	7.818E-05	7.851E-05	7.989E-05	8.251E-05	8.634E-05	9.164E-05	9.864E-05	1.080E-04	1.206E-04
3.01E 00--4.07E 00	8.909E-05	8.914E-05	8.940E-05	9.007E-05	9.145E-05	9.412E-05	9.815E-05	1.034E-04	1.158E-04
2.46E 00--3.01E 00	1.426E-04	1.429E-04	1.445E-04	1.476E-04	1.527E-04	1.609E-04	1.733E-04	1.919E-04	2.192E-04
2.35E 00--2.46E 00	2.151E-04	2.161E-04	2.204E-04	2.288E-04	2.420E-04	2.617E-04	2.899E-04	3.300E-04	3.869E-04
1.83E 00--2.35E 00	2.713E-04	2.724E-04	2.772E-04	2.865E-04	3.007E-04	3.212E-04	3.493E-04	3.873E-04	4.378E-04
1.11E 00--1.83E 00	4.308E-04	4.322E-04	4.383E-04	4.500E-04	4.677E-04	4.925E-04	5.256E-04	5.683E-04	6.224E-04
5.50E 01--1.11E 00	1.118E-03	1.122E-03	1.138E-03	1.168E-03	1.213E-03	1.275E-03	1.356E-03	1.459E-03	1.589E-03
1.11E 01--5.50E 01	3.199E-03	3.207E-03	3.240E-03	3.301E-03	3.389E-03	3.506E-03	3.653E-03	3.831E-03	4.041E-03
3.35E 02--1.11E 01	3.245E-02	3.250E-02	3.271E-02	3.310E-02	3.365E-02	3.437E-02	3.524E-02	3.626E-02	3.741E-02
5.83E 02--3.35E 02	3.207E-02	3.211E-02	3.228E-02	3.258E-02	3.301E-02	3.356E-02	3.423E-02	3.500E-02	3.586E-02
1.01E 04--5.83E 02	2.134E 00	2.136E 00	2.147E 00	2.166E 00	2.193E 00	2.228E 00	2.269E 00	2.317E 00	2.371E 00
2.90E 05--1.01E 04	9.845E 00	9.845E 00	9.891E 00	9.975E 00	1.009E 01	1.025E 01	1.043E 01	1.064E 01	1.088E 01
1.07E 05--2.90E 05	3.011E 01	3.014E 01	3.028E 01	3.053E 01	3.089E 01	3.136E 01	3.191E 01	3.256E 01	3.326E 01
3.06E 05--1.07E 05	3.526E 01	3.525E 01	3.545E 01	3.574E 01	3.613E 01	3.661E 01	3.718E 01	3.784E 01	3.850E 01
1.12E 06--3.06E 05	2.381E 02	2.383E 02	2.394E 02	2.413E 02	2.441E 02	2.476E 02	2.518E 02	2.566E 02	2.620E 02
4.14E 07--1.12E 06	5.413E 02	5.419E 02	5.443E 02	5.486E 02	5.547E 02	5.625E 02	5.719E 02	5.827E 02	5.945E 02
0.0	8.204E 02	8.213E 02	8.248E 02	8.311E 02	8.398E 02	8.506E 02	8.634E 02	8.780E 02	8.941E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	3.856E-06	6.123E-06	9.305E-06	1.764E-05	4.202E-05	1.055E-04	2.606E-04	8.418E-04	3.831E-04
8.19E 00--1.00E 01	2.348E-05	3.104E-05	4.279E-05	6.636E-05	1.180E-04	2.295E-04	4.672E-04	1.050E-03	8.234E-04
6.36E 00--8.19E 00	4.981E-05	6.304E-05	8.445E-05	1.229E-04	1.935E-04	3.210E-04	5.466E-04	9.587E-04	1.230E-03
4.97E 00--6.36E 00	9.755E-05	1.189E-04	1.514E-04	2.029E-04	2.838E-04	4.083E-04	5.931E-04	8.598E-04	1.833E-03
4.07E 00--4.97E 00	1.381E-04	1.630E-04	1.990E-04	2.509E-04	3.242E-04	4.248E-04	5.543E-04	7.047E-04	2.264E-03
3.01E 00--4.07E 00	1.308E-04	1.520E-04	1.811E-04	2.159E-04	2.697E-04	3.304E-04	3.982E-04	4.617E-04	2.000E-03
2.46E 00--3.01E 00	2.591E-04	3.170E-04	4.008E-04	5.227E-04	6.966E-04	9.566E-04	1.327E-03	1.866E-03	4.652E-03
2.35E 00--2.46E 00	4.681E-04	5.859E-04	7.602E-04	1.024E-03	1.429E-03	2.065E-03	3.084E-03	4.797E-03	9.221E-03
1.83E 00--2.35E 00	5.046E-04	5.920E-04	7.054E-04	8.508E-04	1.034E-03	1.258E-03	1.518E-03	1.784E-03	7.489E-03
1.11E 00--1.83E 00	6.896E-04	7.718E-04	8.707E-04	9.868E-04	1.117E-03	1.266E-03	1.386E-03	1.481E-03	9.275E-03
5.50E 01--1.11E 00	1.740E-03	1.941E-03	2.170E-03	2.433E-03	2.725E-03	3.026E-03	3.303E-03	3.498E-03	2.322E-02
1.11E 01--5.50E 01	4.281E-03	4.549E-03	4.838E-03	5.138E-03	5.433E-03	5.700E-03	5.913E-03	6.043E-03	5.412E-02
3.35E 02--1.11E 01	3.867E-02	4.000E-02	4.135E-02	4.266E-02	4.387E-02	4.490E-02	4.567E-02	4.612E-02	4.833E-01
5.83E 02--3.35E 02	3.678E-02	3.773E-02	3.868E-02	3.959E-02	4.041E-02	4.110E-02	4.161E-02	4.191E-02	4.592E-01
1.01E 04--5.83E 02	2.428E 00	2.487E 00	2.545E 00	2.601E 00	2.652E 00	2.694E 00	2.725E 00	2.742E 00	3.032E 01
2.90E 05--1.01E 04	1.113E 01	1.138E 01	1.164E 01	1.188E 01	1.210E 01	1.228E 01	1.241E 01	1.249E 01	1.389E 02
1.07E 05--2.90E 05	3.402E 01	3.479E 01	3.557E 01	3.630E 01	3.698E 01	3.750E 01	3.791E 01	3.814E 01	4.248E 02
3.06E 05--1.07E 05	9.610E 01	9.824E 01	1.004E 02	1.024E 02	1.042E 02	1.057E 02	1.068E 02	1.075E 02	1.200E 03
1.12E 06--3.06E 05	2.677E 02	2.735E 02	2.793E 02	2.848E 02	2.897E 02	2.938E 02	2.968E 02	2.985E 02	3.343E 03
4.14E 07--1.12E 06	6.072E 02	6.202E 02	6.331E 02	6.453E 02	6.561E 02	6.652E 02	6.719E 02	6.757E 02	7.584E 03
0.0	9.115E 02	9.295E 02	9.473E 02	9.642E 02	9.790E 02	9.911E 02	9.998E 02	1.005E 03	1.139E 04

## 10.00 TO 12.20 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1800.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	-1.970E-07	-1.574E-07	-2.965E-08	7.635E-08	1.379E-07	6.217E-08	2.372E-08	1.179E-07	4.274E-07
1.00E 01--1.22E 01	8.566E-07	8.860E-07	9.925E-07	1.534E-06	1.314E-06	1.582E-06	2.082E-06	2.942E-06	4.181E-06
8.19E 00--1.00E 01	5.081E-06	5.070E-06	5.053E-06	5.136E-06	5.485E-06	6.245E-06	7.514E-06	9.299E-06	1.158E-05
6.36E 00--8.19E 00	1.328E-05	1.330E-05	1.346E-05	1.394E-05	1.494E-05	1.661E-05	1.897E-05	2.200E-05	2.575E-05
4.97E 00--6.36E 00	2.474E-05	2.484E-05	2.528E-05	2.611E-05	2.733E-05	2.901E-05	3.123E-05	3.420E-05	3.823E-05
4.07E 00--4.97E 00	2.800E-05	2.801E-05	2.808E-05	2.828E-05	2.872E-05	2.953E-05	3.092E-05	3.308E-05	3.635E-05
3.01E 00--4.07E 00	4.424E-05	4.436E-05	4.486E-05	4.588E-05	4.757E-05	5.023E-05	5.428E-05	6.035E-05	6.929E-05
2.35E 00--3.01E 00	6.728E-05	6.728E-05	6.808E-05	7.192E-05	7.633E-05	8.286E-05	9.221E-05	1.055E-04	1.244E-04
1.83E 00--2.35E 00	8.781E-05	8.818E-05	8.930E-05	9.292E-05	9.769E-05	1.045E-04	1.139E-04	1.265E-04	1.433E-04
1.11E 00--1.83E 00	1.417E-04	1.422E-04	1.442E-04	1.480E-04	1.539E-04	1.622E-04	1.735E-04	1.873E-04	2.052E-04
5.50E 01--1.11E 00	3.766E-04	3.779E-04	3.833E-04	3.936E-04	4.090E-04	4.302E-04	4.572E-04	4.934E-04	5.378E-04
1.11E 01--5.50E 01	1.110E-03	1.113E-03	1.125E-03	1.146E-03	1.177E-03	1.219E-03	1.270E-03	1.333E-03	1.407E-03
3.35E 02--1.11E 01	1.154E-02	1.156E-02	1.163E-02	1.177E-02	1.197E-02	1.223E-02	1.255E-02	1.292E-02	1.333E-02
5.83E 04--3.35E 02	1.148E-02	1.149E-02	1.156E-02	1.167E-02	1.182E-02	1.202E-02	1.226E-02	1.255E-02	1.286E-02
1.01E 04--5.83E 04	7.680E-01	7.689E-01	7.728E-01	7.797E-01	7.896E-01	8.023E-01	8.176E-01	8.352E-01	8.547E-01
2.90E 05--1.01E 04	3.552E 00	3.556E 00	3.573E 00	3.604E 00	3.648E 00	3.704E 00	3.772E 00	3.850E 00	3.936E 00
1.90E 05--2.90E 05	1.090E 01	1.092E 01	1.097E 01	1.106E 01	1.120E 01	1.137E 01	1.157E 01	1.181E 01	1.207E 01
3.06E 06--1.07E 05	3.099E 01	3.102E 01	3.117E 01	3.143E 01	3.180E 01	3.228E 01	3.285E 01	3.351E 01	3.423E 01
1.12E 06--3.06E 06	8.675E 01	8.685E 01	8.725E 01	8.796E 01	8.898E 01	9.029E 01	9.185E 01	9.366E 01	9.564E 01
4.14E 07--1.12E 06	1.977E 02	1.979E 02	1.988E 02	2.004E 02	2.027E 02	2.057E 02	2.092E 02	2.132E 02	2.176E 02
0.0 --4.14E 07	3.005E 02	3.008E 02	3.022E 02	3.045E 02	3.077E 02	3.115E 02	3.166E 02	3.221E 02	3.284E 02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	1.404E-06	2.199E-06	4.270E-06	1.008E-05	2.470E-05	5.886E-05	1.677E-04	8.415E-05
1.00E 01--1.22E 01	0.0	7.747E-06	1.097E-05	1.763E-05	3.241E-05	6.423E-05	1.307E-04	2.830E-04	2.215E-04
8.19E 00--1.00E 01	0.0	1.858E-05	2.538E-05	3.777E-05	6.069E-05	1.020E-04	1.735E-04	2.972E-04	3.768E-04
6.36E 00--8.19E 00	0.0	3.746E-05	4.802E-05	6.479E-05	9.114E-05	1.313E-04	1.893E-04	2.669E-04	3.800E-04
4.97E 00--6.36E 00	0.0	5.188E-05	6.346E-05	8.006E-05	1.033E-04	1.345E-04	1.735E-04	2.142E-04	2.716E-04
4.07E 00--4.97E 00	0.0	5.835E-05	7.188E-05	8.771E-05	1.073E-04	1.317E-04	1.609E-04	1.972E-04	2.427E-04
3.01E 00--4.07E 00	0.0	6.728E-05	8.188E-05	9.873E-05	1.206E-04	1.476E-04	1.792E-04	2.167E-04	2.627E-04
2.35E 00--3.01E 00	0.0	8.233E-05	9.873E-05	1.187E-04	1.424E-04	1.709E-04	2.056E-04	2.427E-04	2.841E-04
1.83E 00--2.35E 00	0.0	1.013E-04	1.288E-04	1.587E-04	1.909E-04	2.266E-04	2.668E-04	3.131E-04	3.657E-04
1.11E 00--1.83E 00	0.0	1.544E-04	1.946E-04	2.323E-04	2.693E-04	3.093E-04	3.531E-04	4.017E-04	4.545E-04
5.50E 01--1.11E 00	0.0	2.274E-04	2.872E-04	3.521E-04	4.241E-04	5.013E-04	5.841E-04	6.741E-04	7.716E-04
1.11E 01--5.50E 01	0.0	6.584E-04	8.188E-04	1.025E-03	1.255E-03	1.508E-03	1.779E-03	2.075E-03	2.395E-03
3.35E 02--1.11E 01	0.0	1.427E-02	1.475E-02	1.533E-02	1.566E-02	1.603E-02	1.635E-02	1.667E-02	1.698E-02
5.83E 04--3.35E 02	0.0	1.254E-02	1.258E-02	1.262E-02	1.266E-02	1.269E-02	1.272E-02	1.275E-02	1.278E-02
1.01E 04--5.83E 04	0.0	8.973E-01	9.188E-01	9.392E-01	9.576E-01	9.730E-01	9.843E-01	9.909E-01	1.003E 01
2.90E 05--1.01E 04	0.0	4.122E 00	4.216E 00	4.306E 00	4.386E 00	4.453E 00	4.502E 00	4.530E 00	4.549E 01
1.07E 05--2.90E 05	0.0	1.264E 01	1.292E 01	1.319E 01	1.344E 01	1.364E 01	1.379E 01	1.387E 01	1.392E 02
3.06E 06--1.07E 05	0.0	3.581E 01	3.660E 01	3.735E 01	3.802E 01	3.858E 01	3.895E 01	3.923E 01	3.941E 02
1.12E 06--3.06E 06	0.0	9.776E 01	9.994E 01	1.021E 02	1.046E 02	1.075E 02	1.096E 02	1.112E 02	1.121E 03
4.14E 07--1.12E 06	0.0	2.272E 02	2.320E 02	2.366E 02	2.406E 02	2.440E 02	2.465E 02	2.479E 02	2.486E 03
0.0 --4.14E 07	0.0	3.413E 02	3.481E 02	3.544E 02	3.599E 02	3.645E 02	3.677E 02	3.696E 02	3.712E 03

4 PI R\*2 FLUENCE AT 75.0 METERS

10.00 TO 12.20 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9445	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.143E-04	1.149E-04	1.174E-04	1.225E-04	1.294E-04	1.393E-04	1.526E-04	1.706E-04	1.950E-04
6.50E 00---8.00E 00	5.968E-04	6.002E-04	6.137E-04	6.397E-04	6.778E-04	7.297E-04	7.991E-04	8.924E-04	1.019E-03
5.00E 00---6.50E 00	2.656E-03	2.668E-03	2.715E-03	2.805E-03	2.934E-03	3.107E-03	3.325E-03	3.600E-03	3.945E-03
4.00E 00---5.00E 00	1.370E-03	1.382E-03	1.424E-03	1.505E-03	1.605E-03	1.733E-03	1.896E-03	2.111E-03	2.404E-03
3.00E 00---4.00E 00	1.026E-03	1.036E-03	1.071E-03	1.133E-03	1.214E-03	1.311E-03	1.433E-03	1.594E-03	1.813E-03
2.50E 00---3.00E 00	3.081E-03	3.101E-03	3.177E-03	3.315E-03	3.519E-03	3.784E-03	4.132E-03	4.600E-03	5.235E-03
2.00E 00---2.50E 00	3.351E-03	3.372E-03	3.455E-03	3.605E-03	3.826E-03	4.110E-03	4.486E-03	4.990E-03	5.676E-03
1.66E 00---2.00E 00	3.209E-03	3.226E-03	3.292E-03	3.420E-03	3.611E-03	3.876E-03	4.236E-03	4.725E-03	5.389E-03
1.33E 00---1.66E 00	4.140E-03	4.154E-03	4.215E-03	4.345E-03	4.559E-03	4.861E-03	5.237E-03	5.690E-03	6.300E-03
1.00E 00---1.33E 00	1.924E-03	1.917E-03	1.898E-03	1.895E-03	1.947E-03	2.087E-03	2.322E-03	2.652E-03	3.088E-03
8.00E 01---1.00E 00	1.311E-03	1.307E-03	1.301E-03	1.314E-03	1.377E-03	1.511E-03	1.718E-03	1.997E-03	2.368E-03
6.00E 01---8.00E 01	3.120E-03	3.164E-03	3.326E-03	3.603E-03	3.945E-03	4.335E-03	4.801E-03	5.424E-03	6.317E-03
4.00E 01---6.00E 01	6.493E-03	6.532E-03	6.683E-03	6.968E-03	7.383E-03	7.966E-03	8.789E-03	9.945E-03	1.151E-02
3.00E 01---4.00E 01	8.867E-03	8.898E-03	9.037E-03	9.476E-03	1.028E-02	1.155E-02	1.324E-02	1.524E-02	1.738E-02
2.00E 01---3.00E 01	3.033E-02	3.042E-02	3.077E-02	3.135E-02	3.205E-02	3.279E-02	3.364E-02	3.459E-02	3.543E-02
1.00E 01---2.00E 01	5.954E-02	5.961E-02	5.989E-02	6.044E-02	6.127E-02	6.239E-02	6.385E-02	6.567E-02	6.788E-02
5.00E 02---1.00E 01	1.163E-01	1.164E-01	1.168E-01	1.176E-01	1.187E-01	1.202E-01	1.221E-01	1.243E-01	1.268E-01
2.00E 02---5.00E 02	3.165E-02	3.166E-02	3.172E-02	3.183E-02	3.198E-02	3.217E-02	3.244E-02	3.269E-02	3.300E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	3.209E-04	2.504E-04	5.104E-04	3.990E-04	5.345E-04	8.987E-04	1.528E-03	2.385E-03	4.508E-03
6.50E 00---8.00E 00	1.232E-03	1.372E-03	2.659E-03	2.098E-03	2.776E-03	4.544E-03	7.849E-03	1.225E-02	2.300E-02
5.00E 00---6.50E 00	4.134E-03	5.572E-03	6.855E-03	6.945E-03	9.125E-03	1.534E-02	2.468E-02	3.726E-02	7.446E-02
4.00E 00---5.00E 00	2.896E-03	3.933E-03	4.731E-03	4.912E-03	6.491E-03	1.102E-02	1.784E-02	2.703E-02	5.274E-02
3.00E 00---4.00E 00	2.027E-03	3.814E-03	3.043E-03	3.592E-03	4.897E-03	8.123E-03	1.290E-02	1.922E-02	3.938E-02
2.50E 00---3.00E 00	6.300E-03	1.146E-02	9.181E-03	1.023E-02	1.395E-02	2.397E-02	3.892E-02	5.895E-02	1.165E-01
2.00E 00---2.50E 00	6.822E-03	9.256E-03	1.112E-02	1.153E-02	1.522E-02	2.572E-02	4.138E-02	6.212E-02	1.237E-01
1.66E 00---2.00E 00	6.490E-03	8.801E-03	1.060E-02	1.111E-02	1.477E-02	2.580E-02	3.935E-02	5.883E-02	1.181E-01
1.33E 00---1.66E 00	8.185E-03	1.110E-02	1.338E-02	1.407E-02	1.871E-02	3.121E-02	4.939E-02	7.296E-02	1.487E-01
1.00E 00---1.33E 00	5.628E-03	4.734E-03	5.848E-03	7.104E-03	1.009E-02	1.550E-02	2.226E-02	3.001E-02	7.090E-02
8.00E 01---1.00E 00	2.921E-03	3.798E-03	4.779E-03	6.010E-03	8.613E-03	1.186E-02	1.323E-02	1.608E-02	5.127E-02
6.00E 01---8.00E 01	1.171E-02	9.882E-03	1.212E-02	1.408E-02	1.860E-02	2.707E-02	3.785E-02	5.125E-02	1.557E-01
4.00E 01---6.00E 01	1.359E-02	1.622E-02	1.872E-02	2.130E-02	2.628E-02	3.223E-02	3.431E-02	4.064E-02	1.905E-01
3.00E 01---4.00E 01	1.958E-02	2.189E-02	2.391E-02	2.600E-02	3.005E-02	3.476E-02	3.622E-02	4.081E-02	2.456E-01
2.00E 01---3.00E 01	3.692E-02	3.910E-02	4.122E-02	4.344E-02	4.862E-02	5.559E-02	5.866E-02	6.503E-02	4.880E-01
1.00E 01---2.00E 01	7.051E-02	7.362E-02	7.708E-02	8.078E-02	8.499E-02	8.963E-02	9.359E-02	9.586E-02	8.997E-01
5.00E 02---1.00E 01	1.296E-01	1.326E-01	1.358E-01	1.389E-01	1.420E-01	1.450E-01	1.472E-01	1.490E-01	1.527E 00
2.00E 02---5.00E 02	3.334E-02	3.370E-02	3.406E-02	3.441E-02	3.473E-02	3.502E-02	3.522E-02	3.531E-02	4.182E-01



## 10.00 TO 12.20 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 150.0 METERS

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=0.0000	MU=0.09894	MU=0.0946	MU=0.08656	MU=0.07550	MU=0.06179	MU=0.04580	MU=0.02816	MU=0.00950
6.50E 00---8.00E 00	1.199E-04	1.208E-04	1.243E-04	1.308E-04	1.399E-04	1.520E-04	1.679E-04	1.898E-04	2.204E-04
5.00E 00---6.50E 00	6.264E-04	6.317E-04	6.519E-04	6.887E-04	7.386E-04	8.024E-04	8.858E-04	9.955E-04	1.159E-03
4.00E 00---5.00E 00	2.358E-03	2.380E-03	2.461E-03	2.605E-03	2.794E-03	3.025E-03	3.30E-03	3.719E-03	4.276E-03
3.00E 00---4.00E 00	1.448E-03	1.473E-03	1.565E-03	1.715E-03	1.884E-03	2.060E-03	2.258E-03	2.524E-03	2.912E-03
2.50E 00---3.00E 00	1.141E-03	1.164E-03	1.246E-03	1.377E-03	1.520E-03	1.662E-03	1.818E-03	2.029E-03	2.339E-03
2.00E 00---2.50E 00	3.320E-03	3.354E-03	3.481E-03	3.701E-03	3.978E-03	4.309E-03	4.728E-03	5.302E-03	6.114E-03
1.66E 00---2.00E 00	3.724E-03	3.761E-03	3.899E-03	4.137E-03	4.435E-03	4.795E-03	5.254E-03	5.889E-03	6.790E-03
1.33E 00---1.66E 00	3.640E-03	3.662E-03	3.750E-03	3.915E-03	4.153E-03	4.462E-03	4.939E-03	5.578E-03	6.466E-03
1.00E 00---1.33E 00	4.819E-03	4.825E-03	4.899E-03	4.965E-03	5.186E-03	5.581E-03	6.152E-03	7.020E-03	8.148E-03
8.00E-01---1.00E 00	2.662E-03	2.622E-03	2.498E-03	2.365E-03	2.367E-03	2.581E-03	3.005E-03	3.584E-03	4.303E-03
6.00E-01---8.00E-01	2.040E-03	2.020E-03	1.967E-03	1.945E-03	2.051E-03	2.325E-03	2.755E-03	3.319E-03	4.077E-03
4.00E-01---6.00E-01	3.433E-03	3.538E-03	3.915E-03	4.513E-03	5.146E-03	5.746E-03	6.400E-03	7.358E-03	8.967E-03
3.00E-01---4.00E-01	1.085E-02	1.093E-02	1.125E-02	1.183E-02	1.267E-02	1.389E-02	1.577E-02	1.863E-02	2.269E-02
2.00E-01---3.00E-01	1.545E-02	1.550E-02	1.587E-02	1.695E-02	1.923E-02	2.290E-02	2.780E-02	3.343E-02	3.917E-02
1.00E-01---2.00E-01	6.393E-02	6.419E-02	6.515E-02	6.672E-02	6.848E-02	7.019E-02	7.183E-02	7.362E-02	7.597E-02
5.00E-02---1.00E-01	1.516E-01	1.518E-01	1.528E-01	1.547E-01	1.574E-01	1.612E-01	1.632E-01	1.724E-01	1.800E-01
2.00E-02---5.00E-02	3.455E-01	3.459E-01	3.477E-01	3.511E-01	3.560E-01	3.625E-01	3.707E-01	3.804E-01	3.919E-01
	9.901E-02	9.907E-02	9.932E-02	9.979E-02	1.005E-01	1.013E-01	1.024E-01	1.037E-01	1.052E-01

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	
6.50E 00---8.00E 00	1.881E-04	3.447E-04	4.702E-04	5.069E-04	8.832E-04	1.481E-03	2.328E-03	5.523E-03	6.084E-03
5.00E 00---6.50E 00	1.097E-03	1.915E-03	2.066E-03	3.423E-03	4.218E-03	7.415E-03	1.208E-02	2.808E-02	3.168E-02
4.00E 00---5.00E 00	4.127E-03	6.803E-03	7.048E-03	1.254E-02	1.213E-02	2.507E-02	3.986E-02	8.694E-02	1.078E-01
3.00E 00---4.00E 00	2.811E-03	4.727E-03	4.842E-03	8.820E-03	8.524E-03	1.797E-02	2.897E-02	6.307E-02	7.580E-02
2.50E 00---3.00E 00	3.362E-03	2.935E-03	4.787E-03	5.422E-03	8.812E-03	1.509E-02	2.215E-02	4.652E-02	6.018E-02
2.00E 00---2.50E 00	5.832E-03	7.826E-03	1.441E-02	1.321E-02	2.210E-02	3.637E-02	5.833E-02	1.294E-01	1.573E-01
1.66E 00---2.00E 00	6.530E-03	1.101E-02	1.101E-02	2.053E-02	1.78E-02	4.118E-02	6.433E-02	1.362E-01	1.732E-01
1.32E 00---1.66E 00	6.253E-03	1.056E-02	1.376E-02	1.995E-02	1.999E-02	4.377E-02	6.393E-02	1.295E-01	1.681E-01
1.00E 00---1.32E 00	7.874E-03	1.332E-02	1.599E-02	2.545E-02	2.561E-02	5.133E-02	7.904E-02	1.562E-01	2.106E-01
8.00E-01---1.00E 00	4.068E-03	7.874E-03	8.582E-03	1.456E-02	1.994E-02	3.189E-02	4.716E-02	7.739E-02	1.227E-01
6.00E-01---8.00E-01	5.799E-03	6.961E-03	1.024E-02	1.550E-02	2.097E-02	3.019E-02	3.937E-02	5.074E-02	1.165E-01
4.00E-01---6.00E-01	9.125E-03	1.768E-02	1.904E-02	2.980E-02	3.591E-02	5.148E-02	6.844E-02	1.083E-01	2.237E-01
3.00E-01---4.00E-01	2.908E-02	3.406E-02	4.177E-02	5.118E-02	5.926E-02	7.377E-02	8.928E-02	1.115E-01	4.121E-01
2.00E-01---3.00E-01	4.549E-02	4.966E-02	5.566E-02	6.317E-02	7.043E-02	8.290E-02	9.527E-02	1.105E-01	5.605E-01
1.00E-01---2.00E-01	8.086E-02	8.364E-02	9.356E-02	1.095E-01	1.090E-01	1.256E-01	1.419E-01	1.640E-01	1.074E 00
5.00E-02---1.00E-01	1.895E-01	2.002E-01	2.129E-01	2.277E-01	2.436E-01	2.614E-01	2.789E-01	2.937E-01	2.443E 00
2.00E-02---5.00E-02	4.050E-01	4.194E-01	4.356E-01	4.516E-01	4.679E-01	4.836E-01	4.988E-01	5.055E-01	5.108E 00
	1.068E-01	1.085E-01	1.103E-01	1.122E-01	1.139E-01	1.154E-01	1.166E-01	1.173E-01	1.341E 00

4 PI R\*2 FLUENCE AT 200.0 METERS

10.00 TO 12.20 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.5800	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.103E-04	1.113E-04	1.152E-04	1.222E-04	1.316E-04	1.433E-04	1.587E-04	1.799E-04	2.102E-04
6.50E 00---8.00E 00	5.735E-04	5.798E-04	6.034E-04	6.443E-04	6.964E-04	7.591E-04	8.389E-04	9.487E-04	1.106E-03
4.00E 00---6.50E 00	2.267E-03	2.294E-03	2.394E-03	2.562E-03	2.769E-03	3.007E-03	3.300E-03	3.700E-03	4.276E-03
3.00E 00---4.00E 00	1.313E-03	1.348E-03	1.471E-03	1.633E-03	1.860E-03	2.039E-03	2.24E-03	2.478E-03	2.873E-03
2.50E 00---3.00E 00	1.062E-03	1.094E-03	1.207E-03	1.380E-03	1.552E-03	1.700E-03	1.848E-03	2.056E-03	2.385E-03
2.00E 00---2.50E 00	3.088E-03	3.130E-03	3.285E-03	3.599E-03	3.833E-03	4.159E-03	4.558E-03	5.117E-03	5.936E-03
1.66E 00---2.00E 00	3.539E-03	3.583E-03	3.744E-03	4.011E-03	4.323E-03	4.677E-03	5.123E-03	5.756E-03	6.681E-03
1.33E 00---1.66E 00	3.516E-03	3.537E-03	3.622E-03	3.781E-03	4.011E-03	4.335E-03	4.791E-03	5.456E-03	6.382E-03
1.00E 00---1.33E 00	4.739E-03	4.732E-03	4.725E-03	4.773E-03	4.961E-03	5.357E-03	5.993E-03	6.879E-03	8.053E-03
8.00E 01---1.00E 02	2.826E-03	2.762E-03	2.560E-03	2.333E-03	2.295E-03	2.551E-03	3.075E-03	3.763E-03	4.574E-03
6.00E 01---8.00E 01	2.191E-03	2.163E-03	2.084E-03	2.044E-03	2.176E-03	2.525E-03	3.055E-03	3.727E-03	4.631E-03
4.00E 01---6.00E 01	3.146E-03	3.288E-03	3.797E-03	4.572E-03	5.329E-03	5.967E-03	6.817E-03	7.653E-03	9.592E-03
3.00E 01---4.00E 01	1.221E-02	1.231E-02	1.270E-02	1.340E-02	1.439E-02	1.590E-02	1.831E-02	2.211E-02	2.760E-02
2.00E 01---3.00E 01	1.774E-02	1.781E-02	1.826E-02	1.973E-02	2.288E-02	2.802E-02	3.486E-02	4.252E-02	5.016E-02
1.00E 01---2.00E 01	7.966E-02	8.001E-02	8.132E-02	8.342E-02	8.569E-02	8.781E-02	8.976E-02	9.192E-02	9.487E-02
5.00E 02---1.00E 01	2.024E-01	2.027E-01	2.041E-01	2.059E-01	2.110E-01	2.165E-01	2.239E-01	2.329E-01	2.442E-01
2.00E 02---5.00E 02	4.951E-01	4.958E-01	4.986E-01	5.041E-01	5.121E-01	5.227E-01	5.359E-01	5.520E-01	5.709E-01
	1.452E-01	1.453E-01	1.457E-01	1.465E-01	1.476E-01	1.490E-01	1.508E-01	1.529E-01	1.553E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.913E-04	2.826E-04	4.475E-04	5.442E-04	8.810E-04	1.444E-03	2.876E-03	6.823E-03	6.500E-03
6.50E 00---8.00E 00	1.478E-03	1.535E-03	2.292E-03	2.880E-03	4.569E-03	7.591E-03	1.438E-02	3.463E-02	3.359E-02
4.00E 00---6.50E 00	5.570E-03	5.857E-03	8.431E-03	1.046E-02	1.596E-02	2.495E-02	4.674E-02	1.088E-01	1.171E-01
3.00E 00---4.00E 00	3.801E-03	4.011E-03	5.822E-03	7.246E-03	1.120E-02	1.791E-02	3.414E-02	7.903E-02	8.224E-02
2.50E 00---3.00E 00	2.585E-03	3.837E-03	4.332E-03	6.355E-03	8.850E-03	1.504E-02	2.714E-02	5.879E-02	6.608E-02
2.00E 00---2.50E 00	7.849E-03	8.125E-03	1.189E-02	1.479E-02	2.293E-02	3.668E-02	6.825E-02	1.540E-01	1.667E-01
1.66E 00---2.00E 00	8.794E-03	9.168E-03	1.331E-02	1.668E-02	2.582E-02	4.085E-02	7.502E-02	1.640E-01	1.850E-01
1.33E 00---1.66E 00	8.428E-03	8.849E-03	1.300E-02	1.657E-02	2.615E-02	4.154E-02	7.479E-02	1.562E-01	1.813E-01
1.00E 00---1.33E 00	1.061E-02	1.114E-02	1.652E-02	2.145E-02	3.359E-02	5.255E-02	9.180E-02	1.853E-01	2.267E-01
8.00E 01---1.00E 02	6.307E-03	6.906E-03	1.125E-02	1.587E-02	2.564E-02	3.882E-02	6.114E-02	9.941E-02	1.464E-01
6.00E 01---8.00E 01	5.777E-03	8.909E-03	1.276E-02	1.975E-02	2.849E-02	4.029E-02	5.415E-02	7.066E-02	1.484E-01
4.00E 01---6.00E 01	1.429E-02	1.686E-02	2.608E-02	3.27E-02	4.639E-02	6.031E-02	8.389E-02	1.265E-01	2.639E-01
3.00E 01---4.00E 01	3.420E-02	4.397E-02	5.284E-02	6.444E-02	7.647E-02	9.307E-02	1.150E-01	1.453E-01	5.122E-01
2.00E 01---3.00E 01	5.674E-02	6.432E-02	7.082E-02	8.028E-02	9.132E-02	1.064E-01	1.241E-01	1.444E-01	7.121E-01
1.00E 01---2.00E 01	9.835E-02	1.063E-01	1.137E-01	1.260E-01	1.395E-01	1.583E-01	1.807E-01	2.083E-01	1.347E 00
5.00E 02---1.00E 01	2.578E-01	2.742E-01	2.930E-01	3.149E-01	3.391E-01	3.653E-01	3.917E-01	4.141E-01	3.339E 00
2.00E 02---5.00E 02	1.580E-01	1.609E-01	1.640E-01	1.670E-01	1.699E-01	1.725E-01	1.745E-01	1.757E-01	1.984E 00

10.00 TO 12.20 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0950	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
8.00E 00--1.00E 01	8.341E-05	8.458E-05	8.92E-05	9.016E-05	1.048E-04	1.146E-04	1.268E-04	1.441E-04	1.699E-04
6.50E 00--8.00E 00	4.262E-04	4.337E-04	4.612E-04	5.054E-04	5.549E-04	6.073E-04	6.688E-04	7.566E-04	8.907E-04
5.00E 00--6.50E 00	1.842E-03	1.876E-03	1.998E-03	2.193E-03	2.404E-03	2.615E-03	2.858E-03	3.201E-03	3.728E-03
4.00E 00--5.00E 00	9.267E-04	9.758E-04	1.147E-03	1.396E-03	1.616E-03	1.767E-03	1.889E-03	2.078E-03	2.433E-03
3.00E 00--4.00E 00	7.865E-04	8.332E-04	9.948E-04	1.227E-03	1.425E-03	1.554E-03	1.653E-03	1.815E-03	2.132E-03
2.50E 00--3.00E 00	2.364E-03	2.416E-03	2.603E-03	2.887E-03	3.172E-03	3.438E-03	3.742E-03	4.199E-03	4.925E-03
2.00E 00--2.50E 00	2.843E-03	2.892E-03	3.070E-03	3.344E-03	3.630E-03	3.920E-03	4.281E-03	4.877E-03	5.673E-03
1.66E 00--2.00E 00	2.933E-03	2.947E-03	3.04E-03	3.115E-03	3.289E-03	3.562E-03	3.981E-03	4.594E-03	5.453E-03
1.33E 00--1.66E 00	4.096E-03	4.063E-03	3.968E-03	3.890E-03	3.844E-03	4.343E-03	4.976E-03	5.840E-03	6.917E-03
1.00E 00--1.33E 00	2.725E-03	2.625E-03	2.363E-03	1.934E-03	1.840E-03	2.151E-03	2.788E-03	3.554E-03	4.355E-03
8.00E 01--1.00E 01	2.049E-03	2.012E-03	1.908E-03	1.858E-03	2.027E-03	2.449E-03	3.049E-03	3.768E-03	4.758E-03
6.00E 01--8.00E 01	2.225E-03	2.417E-03	3.100E-03	4.083E-03	4.930E-03	5.501E-03	6.012E-03	7.044E-03	9.371E-03
4.00E 01--6.00E 01	1.259E-02	1.271E-02	1.335E-02	1.392E-02	1.503E-02	1.682E-02	1.991E-02	2.495E-02	3.236E-02
3.00E 01--4.00E 01	1.879E-02	1.887E-02	1.948E-02	2.153E-02	2.596E-02	3.314E-02	4.247E-02	5.265E-02	6.230E-02
2.00E 01--3.00E 01	9.598E-02	9.643E-02	9.812E-02	1.007E-01	1.034E-01	1.057E-01	1.077E-01	1.100E-01	1.135E-01
1.00E 01--2.00E 01	2.628E-01	2.633E-01	2.656E-01	2.694E-01	2.754E-01	2.834E-01	2.939E-01	3.072E-01	3.236E-01
5.00E 02--1.00E 01	7.089E-01	7.100E-01	7.147E-01	7.238E-01	7.368E-01	7.543E-01	7.763E-01	8.031E-01	8.349E-01
2.00E 02--5.00E 02	2.143E-01	2.144E-01	2.151E-01	2.164E-01	2.182E-01	2.203E-01	2.235E-01	2.270E-01	2.311E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00--1.00E 01	2.010E-04	2.724E-04	3.480E-04	5.062E-04	7.591E-04	1.369E-03	2.979E-03	8.511E-03	6.234E-03
6.50E 00--8.00E 00	1.065E-03	1.419E-03	1.826E-03	2.621E-03	3.976E-03	7.052E-03	1.514E-02	4.234E-02	3.198E-02
5.00E 00--6.50E 00	4.424E-03	5.748E-03	7.272E-03	1.010E-02	1.481E-02	2.495E-02	5.003E-02	1.323E-01	1.156E-01
4.00E 00--5.00E 00	2.946E-03	3.905E-03	4.932E-03	6.897E-03	1.030E-02	1.801E-02	3.706E-02	9.633E-02	8.115E-02
3.00E 00--4.00E 00	2.709E-03	3.304E-03	4.401E-03	5.911E-03	9.089E-03	1.573E-02	3.154E-02	7.413E-02	6.897E-02
2.50E 00--3.00E 00	5.846E-03	7.689E-03	9.695E-03	1.368E-02	2.049E-02	3.531E-02	7.023E-02	1.745E-01	1.569E-01
2.00E 00--2.50E 00	6.730E-03	8.812E-03	1.115E-02	1.581E-02	2.384E-02	4.080E-02	7.873E-02	1.850E-01	1.773E-01
1.66E 00--2.00E 00	6.470E-03	8.526E-03	1.104E-02	1.620E-02	2.513E-02	4.304E-02	8.043E-02	1.744E-01	1.769E-01
1.33E 00--1.66E 00	8.121E-03	1.074E-02	1.417E-02	2.121E-02	3.291E-02	5.478E-02	9.752E-02	2.025E-01	2.202E-01
1.00E 00--1.33E 00	5.281E-03	7.610E-03	1.140E-02	1.684E-02	3.029E-02	4.804E-02	7.522E-02	1.227E-01	1.659E-01
8.00E 01--1.00E 01	6.621E-03	9.865E-03	1.595E-02	2.503E-02	3.766E-02	5.323E-02	7.197E-02	9.431E-02	1.844E-01
6.00E 01--8.00E 01	1.333E-02	2.073E-02	2.939E-02	4.136E-02	5.476E-02	7.189E-02	9.484E-02	1.365E-01	2.947E-01
4.00E 01--6.00E 01	4.222E-02	5.319E-02	6.571E-02	7.853E-02	9.398E-02	1.119E-01	1.381E-01	1.744E-01	6.102E-01
3.00E 01--4.00E 01	7.090E-02	7.831E-02	8.691E-02	9.755E-02	1.121E-01	1.301E-01	1.515E-01	1.747E-01	8.678E-01
2.00E 01--3.00E 01	1.192E-01	1.268E-01	1.381E-01	1.517E-01	1.592E-01	1.899E-01	2.153E-01	2.441E-01	1.620E 00
1.00E 01--2.00E 01	3.435E-01	3.670E-01	3.946E-01	4.260E-01	4.608E-01	4.977E-01	5.341E-01	5.642E-01	4.455E 00
5.00E 02--1.00E 01	8.716E-01	9.129E-01	9.583E-01	1.007E 00	1.056E 00	1.102E 00	1.142E 00	1.169E 00	1.104E 01
2.00E 02--5.00E 02	2.357E-01	2.406E-01	2.457E-01	2.509E-01	2.558E-01	2.601E-01	2.634E-01	2.654E-01	2.959E 00

4 PI R\*\*2 FLUENCE AT 400.0 METERS

10.00 TO 12.20 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	5.854E-05	5.974E-05	6.412E-05	7.102E-05	7.841E-05	8.580E-05	9.444E-05	1.071E-04	1.271E-04
6.50E 00---8.00E 00	2.899E-04	2.979E-04	3.244E-04	3.597E-04	4.128E-04	4.513E-04	4.928E-04	5.525E-04	6.590E-04
5.00E 00---6.50E 00	1.368E-03	1.405E-03	1.537E-03	1.735E-03	1.927E-03	2.092E-03	2.266E-03	2.527E-03	2.965E-03
4.00E 00---5.00E 00	5.647E-04	6.218E-04	8.181E-04	1.090E-03	1.304E-03	1.411E-03	1.462E-03	1.577E-03	1.871E-03
3.00E 00---4.00E 00	5.050E-04	5.600E-04	7.485E-04	1.007E-03	1.203E-03	1.292E-03	1.334E-03	1.441E-03	1.719E-03
2.50E 00---3.00E 00	1.656E-03	1.712E-03	1.906E-03	2.185E-03	2.431E-03	2.620E-03	2.819E-03	3.157E-03	3.750E-03
2.00E 00---2.50E 00	2.116E-03	2.162E-03	2.38E-03	2.570E-03	2.800E-03	3.011E-03	3.275E-03	3.710E-03	4.417E-03
1.66E 00---2.00E 00	2.288E-03	2.291E-03	2.308E-03	2.355E-03	2.444E-03	2.675E-03	3.033E-03	3.560E-03	4.279E-03
1.33E 00---1.66E 00	3.305E-03	3.251E-03	3.080E-03	2.901E-03	2.915E-03	3.225E-03	3.814E-03	4.580E-03	5.460E-03
1.00E 00---1.33E 00	2.370E-03	2.253E-03	1.870E-03	1.435E-03	1.319E-03	1.550E-03	2.303E-03	3.022E-03	3.690E-03
8.00E 01---1.00E 00	1.655E-03	1.620E-03	1.526E-03	1.495E-03	1.683E-03	2.099E-03	2.650E-03	3.280E-03	4.200E-03
6.00E 01---8.00E 01	1.322E-03	1.536E-03	2.293E-03	3.328E-03	4.131E-03	4.555E-03	4.878E-03	5.813E-03	8.274E-03
4.00E 01---6.00E 01	1.142E-02	1.152E-02	1.192E-02	1.262E-02	1.368E-02	1.552E-02	1.885E-02	2.440E-02	3.253E-02
3.00E 01---4.00E 01	1.722E-02	1.732E-02	1.805E-02	2.041E-02	2.344E-02	3.345E-02	4.364E-02	5.442E-02	6.421E-02
2.00E 01---3.00E 01	9.764E-02	9.811E-02	9.982E-02	1.024E-01	1.049E-01	1.069E-01	1.085E-01	1.104E-01	1.136E-01
1.00E 01---2.00E 01	2.760E-01	2.766E-01	2.789E-01	2.834E-01	2.900E-01	2.990E-01	3.107E-01	3.254E-01	3.435E-01
5.00E 02---1.00E 01	7.914E-01	7.927E-01	7.944E-01	8.093E-01	8.249E-01	8.459E-01	8.724E-01	9.048E-01	9.433E-01
2.00E 02---5.00E 02	2.435E-01	2.437E-01	2.445E-01	2.460E-01	2.491E-01	2.510E-01	2.545E-01	2.586E-01	2.637E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	1.587E-04	2.047E-04	2.781E-04	4.007E-04	6.390E-04	1.177E-03	2.741E-03	8.945E-03	5.493E-03
6.50E 00---8.00E 00	8.247E-04	1.067E-03	1.442E-03	2.065E-03	3.273E-03	6.008E-03	1.384E-02	4.395E-02	2.784E-02
5.00E 00---6.50E 00	3.654E-03	4.636E-03	6.099E-03	8.431E-03	1.280E-02	2.221E-02	4.711E-02	1.367E-01	1.033E-01
4.00E 00---5.00E 00	2.395E-03	3.120E-03	4.111E-03	5.668E-03	8.826E-03	1.617E-02	3.550E-02	9.977E-02	7.263E-02
3.00E 00---4.00E 00	2.195E-03	2.860E-03	3.724E-03	5.165E-03	8.158E-03	1.503E-02	3.170E-02	7.883E-02	6.419E-02
2.50E 00---3.00E 00	4.671E-03	5.927E-03	7.914E-03	1.099E-02	1.730E-02	3.091E-02	6.419E-02	1.686E-01	1.347E-01
2.00E 00---2.50E 00	5.469E-03	6.907E-03	9.148E-03	1.303E-02	2.071E-02	3.670E-02	7.326E-02	1.779E-01	1.544E-01
1.66E 00---2.00E 00	5.265E-03	6.682E-03	9.159E-03	1.374E-02	2.263E-02	3.993E-02	7.630E-02	1.693E-01	1.565E-01
1.33E 00---1.66E 00	6.605E-03	8.412E-03	1.190E-02	1.839E-02	3.018E-02	5.115E-02	9.146E-02	1.885E-01	1.942E-01
1.00E 00---1.33E 00	4.623E-03	6.595E-03	1.090E-02	1.875E-02	3.134E-02	4.990E-02	7.743E-02	1.230E-01	1.629E-01
8.00E 01---1.00E 00	6.029E-03	9.790E-03	1.645E-02	2.673E-02	4.050E-02	5.719E-02	7.634E-02	9.877E-02	1.903E-01
6.00E 01---8.00E 01	1.307E-02	2.042E-02	3.045E-02	4.252E-02	5.643E-02	7.230E-02	9.238E-02	1.252E-01	2.886E-01
4.00E 01---6.00E 01	4.295E-02	5.490E-02	6.732E-02	8.003E-02	9.385E-02	1.115E-01	1.353E-01	1.685E-01	6.088E-01
3.00E 01---4.00E 01	7.230E-02	7.949E-02	8.742E-02	9.813E-02	1.125E-01	1.303E-01	1.500E-01	1.699E-01	8.749E-01
2.00E 01---3.00E 01	1.191E-01	1.274E-01	1.384E-01	1.523E-01	1.688E-01	1.883E-01	2.105E-01	2.342E-01	1.622E 00
1.00E 01---2.00E 01	3.655E-01	3.915E-01	4.217E-01	4.560E-01	4.934E-01	5.323E-01	5.696E-01	5.988E-01	4.737E 00
5.00E 02---1.00E 01	9.878E-01	1.038E 00	1.094E 00	1.152E 00	1.212E 00	1.268E 00	1.316E 00	1.347E 00	1.252E 01
2.00E 02---5.00E 02	2.692E-01	2.751E-01	2.812E-01	2.874E-01	2.932E-01	2.983E-01	3.023E-01	3.046E-01	3.379E 00

10.00 TO 12.20 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 500.0 METERS

(CAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.8656	ANGLE 4 MU=0.7550	ANGLE 5 MU=0.6179	ANGLE 6 MU=0.4580	ANGLE 7 MU=0.2816	ANGLE 8 MU=0.0950	ANGLE 9 MU=0.0950
8.00E-00--1.00E-01	3.932E-05	4.050E-05	5.103E-05	5.712E-05	6.235E-05	6.794E-05	7.661E-05	9.158E-05	9.158E-05
6.50E-00--8.00E-01	1.856E-04	1.934E-04	2.212E-04	2.974E-04	3.237E-04	3.482E-04	3.889E-04	4.655E-04	4.655E-04
5.00E-00--6.50E-01	9.643E-04	1.001E-03	1.131E-03	1.484E-03	1.604E-03	1.715E-03	1.900E-03	2.248E-03	2.248E-03
4.00E-00--5.00E-01	2.887E-04	3.492E-04	4.222E-04	5.225E-04	5.799E-04	6.378E-04	7.466E-04	8.889E-04	8.889E-04
3.00E-00--4.00E-01	2.786E-04	3.369E-04	4.042E-04	4.942E-04	5.342E-04	5.799E-04	6.889E-04	8.222E-04	8.222E-04
2.50E-00--3.00E-01	1.096E-03	1.149E-03	1.335E-03	1.694E-03	1.890E-03	2.061E-03	2.400E-03	2.725E-03	2.725E-03
2.00E-00--2.50E-01	1.514E-03	1.554E-03	1.694E-03	1.990E-03	2.203E-03	2.388E-03	2.722E-03	3.284E-03	3.284E-03
1.66E-00--2.00E-01	1.735E-03	1.728E-03	1.707E-03	1.750E-03	1.912E-03	2.100E-03	2.400E-03	2.845E-03	2.845E-03
1.33E-00--1.66E-01	2.587E-03	2.520E-03	2.300E-03	2.016E-03	1.912E-03	2.210E-03	2.646E-03	3.210E-03	3.210E-03
1.00E-00--1.33E-01	1.561E-03	1.840E-03	1.443E-03	8.809E-04	1.203E-03	1.814E-03	2.427E-03	2.923E-03	2.923E-03
8.00E-01--1.00E-01	1.228E-03	1.202E-03	1.134E-03	1.323E-03	1.690E-03	2.137E-03	2.629E-03	3.419E-03	3.419E-03
6.00E-01--8.00E-01	6.211E-04	8.381E-04	1.592E-03	3.290E-03	3.562E-03	3.717E-03	4.527E-03	6.939E-03	6.939E-03
4.00E-01--6.00E-01	9.721E-03	9.804E-03	1.013E-02	1.163E-02	1.337E-02	1.664E-02	2.214E-02	3.014E-02	3.014E-02
3.00E-01--4.00E-01	1.467E-02	1.478E-02	1.556E-02	2.309E-02	3.104E-02	4.094E-02	5.112E-02	5.999E-02	5.999E-02
2.00E-01--3.00E-01	9.087E-02	9.129E-02	9.283E-02	9.710E-02	9.855E-02	9.960E-02	1.010E-01	1.037E-01	1.037E-01
1.00E-01--2.00E-01	2.593E-01	2.599E-01	2.622E-01	2.730E-01	2.818E-01	2.931E-01	3.073E-01	3.247E-01	3.247E-01
5.00E-02--1.00E-01	7.736E-01	7.750E-01	7.808E-01	8.077E-01	8.291E-01	8.561E-01	8.892E-01	9.284E-01	9.284E-01
2.00E-02--5.00E-02	2.405E-01	2.407E-01	2.415E-01	2.452E-01	2.481E-01	2.517E-01	2.560E-01	2.610E-01	2.610E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	1.157E-04	1.522E-04	2.087E-04	3.062E-04	5.019E-04	9.668E-04	2.385E-03	3.649E-03	4.629E-03
6.50E-00--8.00E-01	5.929E-04	7.835E-04	1.070E-03	1.558E-03	2.542E-03	4.888E-03	1.194E-02	1.93E-02	2.313E-02
5.00E-00--6.50E-01	2.808E-03	3.624E-03	4.799E-03	6.708E-03	1.040E-02	1.874E-02	4.164E-02	1.299E-01	6.744E-02
4.00E-00--5.00E-01	1.812E-03	2.422E-03	3.212E-03	4.430E-03	7.107E-03	1.378E-02	2.980E-02	9.509E-02	6.169E-02
3.00E-00--4.00E-01	1.741E-03	2.304E-03	3.012E-03	4.202E-03	6.909E-03	1.349E-02	2.980E-02	7.666E-02	5.642E-02
2.50E-00--3.00E-01	3.455E-03	4.458E-03	5.905E-03	6.473E-03	1.385E-02	2.594E-02	5.561E-02	1.504E-01	1.101E-01
2.00E-00--2.50E-01	4.107E-03	5.253E-03	7.021E-03	1.030E-02	1.707E-02	3.151E-02	6.430E-02	1.578E-01	1.277E-01
1.66E-00--2.00E-01	3.945E-03	5.064E-03	7.110E-03	1.119E-02	1.932E-02	3.527E-02	6.793E-02	1.49E-01	1.313E-01
1.33E-00--1.66E-01	4.925E-03	6.376E-03	9.392E-03	1.535E-02	2.622E-02	4.529E-02	8.047E-02	1.619E-01	1.624E-01
1.00E-00--1.33E-01	3.639E-03	5.466E-03	9.643E-03	1.741E-02	2.970E-02	4.732E-02	7.228E-02	1.121E-01	1.477E-01
8.00E-01--1.00E-01	5.182E-03	8.919E-03	1.562E-02	2.582E-02	3.923E-02	5.494E-02	7.215E-02	9.141E-02	1.780E-01
6.00E-01--8.00E-01	1.170E-02	1.908E-02	2.879E-02	4.024E-02	5.285E-02	6.657E-02	8.261E-02	1.044E-01	2.615E-01
4.00E-01--6.00E-01	4.023E-02	5.144E-02	6.273E-02	7.378E-02	8.531E-02	1.001E-01	1.201E-01	1.436E-01	5.544E-01
3.00E-01--4.00E-01	6.698E-02	7.293E-02	7.974E-02	8.924E-02	1.021E-01	1.176E-01	1.338E-01	1.484E-01	8.002E-01
2.00E-01--3.00E-01	1.086E-01	1.161E-01	1.263E-01	1.383E-01	1.526E-01	1.688E-01	1.867E-01	2.041E-01	1.477E-00
1.00E-01--2.00E-01	3.458E-01	3.707E-01	3.994E-01	4.317E-01	4.665E-01	5.021E-01	5.352E-01	5.598E-01	4.473E-00
5.00E-02--1.00E-01	9.739E-01	1.025E-00	1.082E-00	1.141E-00	1.203E-00	1.258E-00	1.306E-00	1.336E-00	1.235E-00
2.00E-02--5.00E-02	2.665E-01	2.725E-01	2.787E-01	2.849E-01	2.907E-01	2.958E-01	2.997E-01	3.020E-01	3.345E-00

## 10.00 TO 12.20 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

4  $\gamma$  I R\*\*2 FLUENCE AT 600.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0446	ANGLE 4 MU=0.0656	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	2.554E-05	2.665E-05	3.057E-05	3.621E-05	4.114E-05	4.647E-05	4.795E-05	5.362E-05	6.454E-05
6.50E 00--8.00E 00	1.121E-04	1.196E-04	1.456E-04	1.819E-04	2.110E-04	2.277E-04	2.397E-04	2.643E-04	3.196E-04
5.00E 00--6.50E 00	6.533E-04	6.882E-04	8.103E-04	9.809E-04	1.118E-03	1.200E-03	1.261E-03	1.385E-03	1.651E-03
4.00E 00--5.00E 00	9.927E-05	1.611E-04	3.568E-04	6.049E-04	7.734E-04	8.119E-04	7.664E-04	7.739E-04	9.568E-04
3.00E 00--4.00E 00	1.157E-04	1.746E-04	3.670E-04	6.106E-04	7.653E-04	7.915E-04	7.486E-04	7.700E-04	9.651E-04
2.50E 00--3.00E 00	6.902E-04	7.395E-04	9.092E-04	1.133E-03	1.290E-03	1.359E-03	1.410E-03	1.567E-03	1.925E-03
2.00E 00--2.50E 00	1.091E-03	1.287E-03	1.203E-03	1.353E-03	1.472E-03	1.564E-03	1.690E-03	1.942E-03	2.376E-03
1.66E 00--2.00E 00	1.059E-03	1.287E-03	1.237E-03	1.353E-03	1.472E-03	1.564E-03	1.690E-03	1.942E-03	2.376E-03
1.33E 00--1.66E 00	1.999E-03	1.925E-03	1.682E-03	1.405E-03	1.335E-03	1.562E-03	2.023E-03	2.548E-03	3.018E-03
1.00E 00--1.33E 00	1.577E-03	1.461E-03	1.081E-03	6.578E-04	5.525E-04	8.514E-04	1.391E-03	1.838E-03	2.218E-03
8.00E 01--1.00E 01	8.571E-04	8.399E-04	8.023E-04	8.311E-04	1.011E-03	1.312E-03	1.644E-03	1.999E-03	2.650E-03
6.00E 01--8.00E 01	1.348E-03	3.493E-04	1.057E-03	1.960E-03	2.552E-03	2.696E-03	2.718E-03	3.402E-03	5.647E-03
4.00E 01--6.00E 01	7.987E-03	8.047E-03	8.281E-03	8.718E-03	9.497E-03	1.107E-02	1.411E-02	1.922E-02	2.656E-02
3.00E 01--4.00E 01	1.196E-02	1.208E-02	1.286E-02	1.522E-02	2.001E-02	2.735E-02	3.633E-02	4.532E-02	5.284E-02
2.00E 01--3.00E 01	8.011E-02	8.047E-02	8.176E-02	8.357E-02	8.508E-02	8.601E-02	8.653E-02	8.738E-02	8.948E-02
1.00E 01--2.00E 01	2.281E-01	2.286E-01	2.307E-01	2.347E-01	2.405E-01	2.483E-01	2.584E-01	2.710E-01	2.865E-01
5.00E 02--1.00E 01	6.981E-01	6.993E-01	7.047E-01	7.149E-01	7.296E-01	7.493E-01	7.742E-01	8.047E-01	8.408E-01
2.00E 02--5.00E 02	2.182E-01	2.184E-01	2.192E-01	2.206E-01	2.226E-01	2.252E-01	2.285E-01	2.325E-01	2.370E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	8.289E-05	1.107E-04	1.531E-04	2.273E-04	3.824E-04	7.697E-04	2.009E-03	7.967E-03	3.808E-03
6.50E 00--8.00E 00	4.164E-04	5.604E-04	7.726E-04	1.137E-03	1.908E-03	3.849E-03	9.958E-03	3.808E-02	1.872E-02
5.00E 00--6.50E 00	2.103E-03	2.752E-03	3.664E-03	5.151E-03	8.149E-03	1.525E-02	3.545E-02	1.174E-01	7.172E-02
4.00E 00--5.00E 00	1.335E-03	1.835E-03	2.417E-03	3.333E-03	5.511E-03	1.135E-02	2.778E-02	8.624E-02	5.082E-02
3.00E 00--4.00E 00	1.338E-03	1.804E-03	2.347E-03	3.282E-03	5.620E-03	1.166E-02	2.687E-02	7.066E-02	4.789E-02
2.50E 00--3.00E 00	2.496E-03	3.255E-03	4.328E-03	6.322E-03	1.079E-02	2.118E-02	4.675E-02	1.282E-01	8.756E-02
2.00E 00--2.50E 00	3.002E-03	3.860E-03	5.216E-03	7.888E-03	1.367E-02	2.625E-02	5.453E-02	1.336E-01	1.024E-01
1.66E 00--2.00E 00	2.868E-03	3.694E-03	5.347E-03	8.860E-03	1.603E-02	3.009E-02	5.819E-02	1.260E-01	1.067E-01
1.33E 00--1.66E 00	3.554E-03	4.653E-03	7.209E-03	1.248E-02	2.211E-02	3.869E-02	6.810E-02	1.327E-01	1.317E-01
1.00E 00--1.33E 00	2.746E-03	3.349E-03	8.215E-03	1.544E-02	2.668E-02	4.233E-02	6.352E-02	9.530E-02	1.274E-01
8.00E 01--1.00E 01	4.263E-03	7.778E-03	1.406E-02	2.348E-02	3.559E-02	4.930E-02	6.357E-02	7.865E-02	1.568E-01
6.00E 01--8.00E 01	1.013E-02	1.700E-02	2.584E-02	3.595E-02	5.783E-02	8.493E-02	1.005E-01	8.639E-02	2.258E-01
4.00E 01--6.00E 01	3.567E-02	4.551E-02	6.410E-02	7.340E-02	8.735E-02	9.998E-02	1.124E-01	1.205E-01	4.780E-01
3.00E 01--4.00E 01	5.845E-02	6.309E-02	6.856E-02	7.651E-02	8.735E-02	9.998E-02	1.124E-01	1.205E-01	6.909E-01
2.00E 01--3.00E 01	9.356E-02	9.988E-02	1.083E-01	1.184E-01	1.299E-01	1.428E-01	1.564E-01	1.687E-01	1.271E 00
1.00E 01--2.00E 01	3.751E-01	3.270E-01	3.521E-01	3.800E-01	4.099E-01	4.399E-01	4.671E-01	4.865E-01	3.937E 00
5.00E 02--1.00E 01	8.826E-01	9.298E-01	9.815E-01	1.036E 00	1.091E 00	1.142E 00	1.184E 00	1.211E 00	1.119E 01
2.00E 02--5.00E 02	2.421E-01	2.475E-01	2.532E-01	2.588E-01	2.641E-01	2.687E-01	2.721E-01	2.742E-01	3.038E 00

4 PI R\*\*2 FLUENCE AT 900.0 METERS

10.00 TO 12.20 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	5.448E-06	6.263E-06	9.053E-05	1.271E-05	1.521E-05	1.599E-05	1.592E-05	1.700E-05	2.116E-05
6.50E 00---8.00E 00	1.197E-05	1.768E-05	3.595E-05	5.908E-05	7.419E-05	7.555E-05	7.124E-05	7.248E-05	9.774E-05
5.00E 00---6.50E 00	1.587E-04	1.834E-04	2.584E-04	3.783E-04	4.490E-04	4.643E-04	4.533E-04	4.784E-04	5.946E-04
4.00E 00---5.00E 00	-1.177E-04	-6.518E-05	5.519E-05	2.474E-04	3.360E-04	3.126E-04	2.293E-04	1.945E-04	2.893E-04
3.00E 00---4.00E 00	-8.878E-05	-3.726E-05	8.203E-05	2.697E-04	3.520E-04	3.269E-04	2.493E-04	2.279E-04	3.396E-04
2.50E 00---3.00E 00	1.153E-04	1.476E-04	2.559E-04	3.863E-04	4.536E-04	4.474E-04	4.205E-04	4.606E-04	6.208E-04
2.00E 00---2.50E 00	3.453E-04	3.579E-04	4.003E-04	4.509E-04	4.810E-04	4.977E-04	5.225E-04	6.485E-04	8.291E-04
1.66E 00---2.00E 00	5.577E-04	5.332E-04	4.500E-04	3.510E-04	3.155E-04	3.793E-04	5.287E-04	7.053E-04	8.483E-04
1.33E 00---1.66E 00	9.082E-04	8.433E-04	6.250E-04	3.725E-04	2.915E-04	4.18E-04	7.314E-04	9.798E-04	1.082E-03
1.00E 00---1.33E 00	7.554E-04	6.768E-04	3.767E-04	1.180E-04	1.165E-04	2.774E-04	5.784E-04	7.939E-04	8.253E-04
8.00E-01---1.00E 01	1.983E-04	2.022E-04	2.281E-04	3.018E-04	4.244E-04	5.20E-04	6.357E-04	7.218E-04	1.059E-03
6.00E-01---8.00E-01	-3.851E-04	-2.255E-04	2.55E-04	8.341E-04	1.093E-03	1.041E-03	9.072E-04	1.297E-03	2.833E-03
4.00E-01---6.00E-01	4.008E-03	4.019E-03	4.068E-03	4.210E-03	4.612E-03	5.04E-03	7.598E-03	1.090E-02	1.546E-02
3.00E-01---4.00E-01	5.708E-03	5.813E-03	6.424E-03	8.090E-03	1.126E-02	1.589E-02	2.125E-02	2.622E-02	2.993E-02
2.00E-01---3.00E-01	4.617E-02	4.634E-02	4.653E-02	4.765E-02	4.805E-02	4.798E-02	4.764E-02	4.754E-02	4.827E-02
1.00E-01---2.00E-01	1.268E-01	1.271E-01	1.283E-01	1.306E-01	1.338E-01	1.382E-01	1.438E-01	1.508E-01	1.592E-01
5.00E-02---1.00E-01	4.006E-01	4.014E-01	4.045E-01	4.104E-01	4.190E-01	4.304E-01	4.448E-01	4.623E-01	4.830E-01
2.00E-02---5.00E-02	1.257E-01	1.258E-01	1.262E-01	1.270E-01	1.282E-01	1.297E-01	1.316E-01	1.338E-01	1.364E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.914E-05	4.070E-05	5.678E-05	8.501E-05	1.527E-04	3.510E-04	1.081E-03	5.345E-03	1.987E-03
6.50E 00---8.00E 00	1.348E-04	1.930E-04	2.565E-04	3.923E-04	7.113E-04	1.682E-03	5.186E-03	2.442E-02	9.242E-03
5.00E 00---6.50E 00	8.145E-04	1.110E-03	1.476E-03	2.067E-03	3.451E-03	7.278E-03	1.932E-02	7.385E-02	3.586E-02
4.00E 00---5.00E 00	5.067E-04	7.510E-04	9.423E-04	1.220E-03	2.233E-03	5.671E-03	1.616E-02	5.470E-02	2.593E-02
3.00E 00---4.00E 00	5.629E-04	7.941E-04	1.162E-03	1.334E-03	2.632E-03	6.598E-03	1.701E-02	4.625E-02	2.613E-02
2.50E 00---3.00E 00	8.757E-04	1.162E-03	1.525E-03	2.355E-03	4.685E-03	1.067E-02	2.525E-02	6.900E-02	4.077E-02
2.00E 00---2.50E 00	1.062E-03	1.359E-03	1.698E-03	3.225E-03	6.487E-03	1.383E-02	2.972E-02	6.997E-02	4.842E-02
1.66E 00---2.00E 00	9.704E-04	1.238E-03	2.405E-03	4.081E-03	8.405E-03	1.569E-02	3.209E-02	6.459E-02	5.218E-02
1.33E 00---1.66E 00	1.148E-03	1.576E-03	3.019E-03	6.252E-03	1.206E-02	2.139E-02	3.612E-02	6.332E-02	6.387E-02
1.00E 00---1.33E 00	1.000E-03	1.973E-03	4.535E-03	9.259E-03	1.620E-02	2.495E-02	3.523E-02	4.819E-02	6.978E-02
8.00E-01---1.00E 01	2.125E-03	4.505E-03	8.32E-03	1.449E-02	2.148E-02	2.854E-02	3.473E-02	3.997E-02	8.870E-02
6.00E-01---8.00E-01	5.864E-03	1.028E-02	1.558E-02	2.110E-02	2.634E-02	3.118E-02	3.577E-02	4.053E-02	1.235E-01
4.00E-01---6.00E-01	2.080E-02	2.615E-02	3.085E-02	3.477E-02	3.857E-02	4.339E-02	4.995E-02	5.728E-02	2.583E-01
3.00E-01---4.00E-01	3.225E-02	3.397E-02	3.633E-02	4.042E-02	4.558E-02	5.126E-02	5.84E-02	5.858E-02	3.724E-01
2.00E-01---3.00E-01	5.019E-02	5.331E-02	5.736E-02	6.204E-02	6.712E-02	7.251E-02	7.781E-02	8.198E-02	6.806E-01
1.00E-01---2.00E-01	1.692E-01	1.808E-01	1.939E-01	2.081E-01	2.228E-01	2.370E-01	2.492E-01	2.572E-01	2.168E 00
5.00E-02---1.00E-01	5.667E-01	5.333E-01	5.22E-01	5.081E-01	4.919E-01	4.749E-01	4.6709E-01	4.644E-01	6.406E 00
2.00E-02---5.00E-02	1.392E-01	1.422E-01	1.453E-01	1.484E-01	1.513E-01	1.537E-01	1.556E-01	1.566E-01	1.745E 00

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0989	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0619	ANGLE 7 MU=0.0450	ANGLE 8 MU=0.0281	ANGLE 9 MU=0.0095
8.00E 00--1.00E 01	3.482E-08	6.235E-07	2.308E-06	4.500E-06	5.865E-06	5.722E-06	4.879E-06	4.825E-06	6.539E-06
6.50E 00--8.00E 00	-8.509E-06	-4.435E-06	5.408E-06	2.066E-05	2.730E-05	2.518E-05	1.841E-05	1.548E-05	2.365E-05
5.00E 00--6.50E 00	1.127E-05	2.710E-05	7.388E-05	1.932E-04	1.748E-04	1.703E-04	1.455E-04	1.430E-04	1.944E-04
4.00E 00--5.00E 00	-1.172E-04	-8.639E-05	8.925E-07	9.429E-05	1.325E-04	1.256E-04	3.747E-05	2.702E-05	8.350E-05
3.00E 00--4.00E 00	-9.951E-05	-6.924E-05	7.118E-06	1.166E-04	1.494E-04	1.224E-04	4.755E-05	5.434E-05	1.112E-04
2.50E 00--3.00E 00	-1.601E-05	3.893E-06	5.998E-05	1.297E-04	1.583E-04	1.349E-04	1.078E-04	1.167E-04	1.860E-04
2.00E 00--2.50E 00	1.154E-04	1.186E-04	1.381E-04	1.398E-04	1.398E-04	1.421E-04	1.610E-04	2.086E-04	2.776E-04
1.66F 00--2.00E 00	2.543E-04	2.341E-04	1.644E-04	7.450E-05	5.342E-05	9.376E-05	1.727E-04	2.726E-04	2.898E-04
1.33E 00--1.66E 00	4.201E-04	3.770E-04	5.704E-05	5.704E-05	2.891E-05	1.057E-04	2.622E-04	3.784E-04	3.574E-04
1.00E 00--1.33E 00	3.449E-04	3.004E-04	1.284E-04	-6.019E-07	-6.720E-06	8.344E-05	2.412E-04	3.068E-04	2.649E-04
8.00E-01--1.00E 00	-9.528E-06	1.823E-06	4.917E-05	1.100E-04	1.796E-04	2.181E-04	2.487E-04	4.664E-04	1.373E-03
6.00E-01--8.00E-01	-3.430E-04	-2.520E-04	7.957E-05	3.445E-04	4.421E-04	2.644E-03	3.765E-03	5.574E-03	1.766E-03
4.00E-01--6.00E-01	1.900E-03	1.894E-03	1.877E-03	1.901E-03	2.093E-03	2.644E-03	1.324E-02	2.077E-02	3.825E-02
3.00E-01--4.00E-01	2.519E-03	2.590E-03	3.925E-03	3.925E-03	5.716E-03	8.186E-03	1.091E-02	1.324E-02	1.866E-02
2.00E-01--3.00E-01	2.350E-02	2.356E-02	2.379E-02	2.400E-02	2.398E-02	2.369E-02	2.325E-02	2.296E-02	2.314E-02
1.00E-01--2.00E-01	6.157E-02	6.171E-02	6.232E-02	6.343E-02	6.502E-02	6.714E-02	6.979E-02	7.306E-02	7.697E-02
5.00E-02--1.00E-01	1.954E-01	1.957E-01	2.001E-01	2.001E-01	2.041E-01	2.096E-01	2.164E-01	2.246E-01	2.343E-01
2.00E-02--5.00E-02	6.100E-02	6.105E-02	6.126E-02	6.164E-02	6.218E-02	6.290E-02	6.378E-02	6.482E-02	6.600E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.0281	ANGLE 12 MU=0.0450	ANGLE 13 MU=0.0619	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.0856	ANGLE 16 MU=0.0946	ANGLE 17 MU=0.0989	SCALAR FLUX
8.00E 00--1.00E 01	1.018E-05	1.498E-05	2.042E-05	2.956E-05	5.596E-05	1.487E-04	5.386E-04	3.195E-03	9.953E-04
6.50E 00--8.00E 00	4.317E-05	6.672E-05	8.785E-05	1.203E-04	2.343E-04	6.747E-04	2.493E-03	1.392E-02	4.395E-03
5.00E 00--6.50E 00	2.992E-04	4.259E-04	5.505E-04	7.409E-04	1.302E-03	3.156E-03	9.568E-03	4.095E-02	1.673E-02
4.00E 00--5.00E 00	2.028E-04	3.055E-04	3.442E-04	3.697E-04	7.861E-04	2.318E-03	8.570E-03	3.054E-02	1.248E-02
3.00E 00--4.00E 00	2.332E-04	3.346E-04	3.642E-04	4.532E-04	1.100E-03	3.387E-03	9.549E-03	2.822E-02	1.311E-02
2.50E 00--3.00E 00	2.982E-04	3.934E-04	4.839E-04	8.024E-04	1.957E-03	5.148E-03	1.281E-02	3.365E-02	1.826E-02
2.00E 00--2.50E 00	3.472E-04	4.242E-04	6.209E-04	1.258E-03	2.970E-03	6.851E-03	1.488E-02	3.301E-02	2.175E-02
1.66F 00--2.00E 00	2.750E-04	3.461E-04	7.315E-04	1.839E-03	4.190E-03	8.313E-03	1.597E-02	2.969E-02	2.403E-02
1.33E 00--1.66E 00	2.973E-04	4.608E-04	1.241E-03	3.041E-03	6.149E-03	1.077E-02	1.728E-02	2.739E-02	2.919E-02
1.00E 00--1.33E 00	3.147E-04	8.576E-04	2.330E-03	4.959E-03	8.578E-03	1.269E-02	1.682E-02	2.107E-02	3.407E-02
8.00E-01--1.00E 00	1.008E-03	2.377E-03	4.51E-03	7.698E-03	1.105E-02	1.405E-02	1.617E-02	1.745E-02	4.381E-02
6.00E-01--8.00E-01	3.096E-03	5.486E-03	8.152E-03	1.068E-02	1.281E-02	1.458E-02	1.612E-02	1.749E-02	6.022E-02
4.00E-01--6.00E-01	1.064E-02	1.313E-02	1.706E-02	1.655E-02	1.789E-02	1.974E-02	2.234E-02	2.503E-02	1.244E-01
3.00E-01--4.00E-01	1.545E-02	1.615E-02	1.879E-02	1.879E-02	2.114E-02	2.342E-02	2.492E-02	2.551E-02	1.783E-01
2.00E-01--3.00E-01	2.392E-02	2.528E-02	2.700E-02	2.891E-02	3.091E-02	3.299E-02	3.499E-02	3.648E-02	3.245E-01
1.00E-01--2.00E-01	8.156E-02	8.681E-02	9.263E-02	9.884E-02	1.051E-01	1.111E-01	1.160E-01	1.190E-01	1.039E 00
5.00E-02--1.00E-01	2.454E-01	2.576E-01	2.707E-01	2.842E-01	2.974E-01	3.092E-01	3.189E-01	3.242E-01	3.094E 00
2.00E-02--5.00E-02	6.730E-02	6.868E-02	7.010E-02	7.148E-02	7.275E-02	7.383E-02	7.464E-02	7.512E-02	8.435E-01



10.00 TO 12.20 MEV NEUTRON SOL. CE

4 PI R\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	-9.214E-07	-5.548E-07	3.623E-07	1.746E-06	2.287E-06	2.042E-06	1.351E-06	1.017E-06	1.764E-06
5.00E 00---6.50E 00	-8.785E 06	-6.503E-06	1.346E-07	6.973E-06	1.018E-05	9.479E-06	2.471E-06	1.603E-06	5.357E-06
4.00E 00---5.00E 00	-1.825E 05	-8.559E-06	1.632E-05	5.277E-05	6.716E-05	6.017E-05	4.167E-05	3.521E-05	5.858E-05
3.00E 00---4.00E 00	-7.69E 05	-6.021E-05	-7.689E-06	3.166E-05	6.742E-05	3.503E-05	-3.433E-07	-7.585E-06	1.880E-05
2.50E 00---3.00E 00	-6.824E-05	-5.184E-05	-4.362E-07	3.817E-05	7.089E-05	3.709E-05	5.042E-06	4.482E-06	3.295E-05
2.00E 00---2.50E 00	-2.795E-05	-1.748E-05	9.821E-06	4.656E-05	5.445E-05	4.037E-05	2.006E-05	2.278E-05	5.866E-05
1.66E 00---2.00E 00	4.295E-05	4.297E-05	4.236E-05	3.941E-05	3.564E-05	3.583E-05	4.658E-05	6.902E-05	9.387E-05
1.33E 00---1.66E 00	1.225E-04	1.093E-04	5.565E-05	8.957E-06	-5.531E-06	1.572E-05	6.493E-05	1.052E-04	1.020E-04
1.00E 00---1.33E 00	1.989E-04	1.738E-04	7.575E-05	-6.059E-06	-2.392E-05	1.592E-05	1.048E-04	1.513E-04	1.155E-04
8.00E-01---1.00E 00	1.553E-04	1.323E-04	4.623E-05	-1.938E-05	-2.116E-05	2.545E-05	1.006E-04	1.157E-04	7.274E-05
6.00E-01---8.00E-01	-4.394E-05	-3.473E-05	-1.093E-05	3.695E-05	8.199E-05	8.486E-05	5.984E-05	4.188E-05	1.338E-04
4.00E-01---6.00E-01	-2.143E-04	-1.663E-04	-1.077E-05	1.192E-04	2.083E-04	1.213E-04	5.417E-05	1.686E-04	6.571E-04
3.00E-01---4.00E-01	8.862E-04	8.779E-04	8.524E-04	8.469E-04	9.344E-04	1.22E-03	1.808E-03	2.728E-03	3.905E-03
2.00E-01---3.00E-01	1.089E-03	1.132E-03	1.350E-03	1.873E-03	2.780E-03	4.008E-03	5.311E-03	6.382E-03	7.008E-03
1.00E-01---2.00E-01	1.136E-02	1.139E-02	1.146E-02	1.150E-02	1.140E-02	1.116E-02	1.084E-02	1.062E-02	1.043E-02
5.00E-02---1.00E-01	2.851E-02	2.858E-02	2.886E-02	2.938E-02	3.011E-02	3.107E-02	3.227E-02	3.372E-02	3.545E-02
2.00E-02---5.00E-02	9.012E-02	9.028E-02	9.096E-02	9.222E-02	9.405E-02	9.647E-02	9.949E-02	1.031E-01	1.074E-01
	2.796E-02	2.798E-02	2.807E-02	2.824E-02	2.848E-02	2.880E-02	2.918E-02	2.964E-02	3.015E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	3.578E-06	5.673E-06	7.315E-06	9.592E-06	1.916E-05	6.106E-05	2.599E-04	1.305E-03	4.982E-04
5.00E 00---6.50E 00	1.505E-05	2.462E-05	2.918E-05	3.219E-05	6.858E-05	2.614E-04	1.161E-03	7.486E-03	2.079E-03
4.00E 00---5.00E 00	1.087E-04	1.619E-04	1.964E-04	2.401E-04	4.497E-04	1.306E-03	4.528E-03	2.129E-02	7.587E-03
3.00E 00---4.00E 00	8.128E-05	1.311E-04	1.197E-04	8.273E-05	2.431E-04	1.177E-03	4.352E-03	1.597E-02	5.877E-03
2.50E 00---3.00E 00	9.781E-05	1.397E-04	1.234E-04	1.251E-04	4.329E-04	1.667E-03	5.034E-03	1.377E-02	6.333E-03
2.00E 00---2.50E 00	1.064E-04	1.311E-04	1.394E-04	2.598E-04	8.262E-04	2.465E-03	6.300E-03	1.574E-02	8.166E-03
1.66E 00---2.00E 00	1.078E-04	1.171E-04	1.885E-04	4.973E-04	1.369E-03	3.322E-03	7.170E-03	1.492E-02	9.688E-03
1.33E 00---1.66E 00	6.488E-05	6.947E-05	2.619E-04	8.451E-04	2.058E-03	4.179E-03	7.572E-03	1.306E-02	1.090E-02
1.00E 00---1.33E 00	4.942E-05	1.143E-04	5.279E-04	1.479E-03	3.043E-03	5.191E-03	7.894E-03	1.144E-02	1.315E-02
8.00E-01---1.00E 00	8.773E-05	3.797E-04	1.166E-03	2.517E-03	4.264E-03	6.049E-03	7.540E-03	8.735E-03	1.590E-02
6.00E-01---8.00E-01	4.780E-04	1.204E-03	2.357E-03	3.819E-03	5.307E-03	6.472E-03	7.083E-03	7.247E-03	2.051E-02
4.00E-01---6.00E-01	1.562E-03	2.757E-03	4.501E-03	5.069E-03	5.867E-03	6.459E-03	6.962E-03	7.590E-03	2.783E-02
3.00E-01---4.00E-01	5.153E-03	6.241E-03	7.015E-03	7.510E-03	7.960E-03	8.665E-03	9.713E-03	1.075E-02	5.742E-02
2.00E-01---3.00E-01	7.235E-03	7.344E-03	7.686E-03	8.435E-03	9.442E-03	1.033E-02	1.080E-02	1.087E-02	8.188E-02
1.00E-01---2.00E-01	1.094E-02	1.151E-02	1.222E-02	1.297E-02	1.374E-02	1.454E-02	1.531E-02	1.588E-02	1.486E-01
5.00E-02---1.00E-01	3.745E-02	3.972E-02	4.220E-02	4.481E-02	4.740E-02	4.980E-02	5.174E-02	5.294E-02	4.750E-01
2.00E-02---5.00E-02	1.122E-01	1.175E-01	1.231E-01	1.288E-01	1.343E-01	1.392E-01	1.430E-01	1.453E-01	1.412E 00
	3.072E-02	3.131E-02	3.191E-02	3.250E-02	3.304E-02	3.349E-02	3.383E-02	3.403E-02	3.848E-01

10.00 TO 12.20 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 1800.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000
6.50E 00--8.00E 00	-7.973E-07	-5.937E-07	1.088E-08	6.190E-07	9.208E-07	7.741E-07	2.018E-07	1.238E-07	4.647E-07
5.00E 00--6.50E 00	-5.804E-06	-4.574E-06	-6.902E-07	2.271E-06	4.980E-06	2.605E-06	-1.548E-07	-9.138E-07	9.733E-07
3.50E 00--5.00E 00	-1.692E-05	-1.191E-05	1.591E-06	2.025E-05	2.571E-05	2.104E-05	7.140E-06	7.298E-06	1.676E-05
2.00E 00--3.50E 00	-4.348E-05	-3.484E-05	-7.821E-06	1.365E-05	3.109E-05	1.233E-05	-7.164E-06	-1.129E-05	2.794E-05
1.50E 00--2.00E 00	-3.938E-05	-3.095E-05	-4.293E-06	1.607E-05	3.176E-05	1.241E-05	-6.210E-06	-6.151E-06	9.911E-06
1.00E 00--1.50E 00	-1.872E-05	-1.365E-05	3.948E-07	1.704E-05	1.912E-05	9.659E-06	8.454E-07	4.219E-06	1.937E-05
0.50E 00--1.00E 00	1.825E-05	1.756E-05	1.478E-05	1.033E-05	1.289E-05	8.644E-07	2.480E-05	4.546E-05	3.301E-05
0.25E 00--0.50E 00	6.043E-05	5.270E-05	2.835E-05	-4.368E-05	-1.289E-05	8.644E-07	2.480E-05	4.546E-05	3.301E-05
0.125E 00--0.25E 00	9.500E-05	8.149E-05	2.999E-05	-1.368E-05	-2.291E-05	8.779E-07	4.480E-05	6.197E-05	2.479E-05
0.0625E 00--0.125E 00	6.964E-05	5.832E-05	1.595E-05	-1.476E-05	-1.490E-05	8.272E-06	4.262E-05	4.293E-05	8.431E-06
0.03125E 00--0.0625E 00	3.502E-05	-2.907E-05	-7.882E-06	1.470E-05	3.789E-05	3.310E-05	9.330E-06	2.037E-06	4.940E-05
0.015625E 00--0.03125E 00	-1.169E-04	-9.272E-05	3.875E-04	5.122E-05	9.016E-05	3.353E-05	4.575E-06	6.902E-05	3.153E-04
0.0078125E 00--0.015625E 00	4.00E-01--6.00E-01	4.063E-04	3.875E-04	3.771E-04	4.190E-04	5.642E-04	8.580E-04	1.308E-03	1.867E-03
0.00390625E 00--0.0078125E 00	3.00E-01--4.00E-01	4.972E-04	6.130E-04	8.802E-04	1.329E-03	1.919E-03	2.977E-03	2.977E-03	3.241E-03
0.001953125E 00--0.00390625E 00	2.00E-01--3.00E-01	5.383E-03	5.404E-03	5.397E-03	5.318E-03	5.164E-03	4.979E-03	4.842E-03	4.823E-03
0.0009765625E 00--0.001953125E 00	1.00E-01--2.00E-01	1.304E-02	1.317E-02	1.340E-02	1.373E-02	1.416E-02	1.469E-02	1.534E-02	1.609E-02
0.00048828125E 00--0.0009765625E 00	5.00E-02--1.00E-01	4.087E-02	4.124E-02	4.180E-02	4.260E-02	4.366E-02	4.498E-02	4.566E-02	4.840E-02
0.000244140625E 00--0.00048828125E 00	2.00E-02--5.00E-02	1.261E-02	1.265E-02	1.272E-02	1.283E-02	1.297E-02	1.313E-02	1.333E-02	1.355E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU=0.00950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	2.487E-04
6.50E 00--8.00E 00	5.764E-06	2.267E-06	2.637E-06	2.783E-06	5.966E-06	2.471E-05	1.239E-04	9.876E-04	9.883E-04
5.00E 00--6.50E 00	4.054E-05	6.252E-05	6.797E-05	6.789E-05	1.405E-04	5.283E-04	2.097E-03	1.066E-02	3.407E-03
3.50E 00--5.00E 00	3.572E-05	5.774E-05	4.021E-05	-2.313E-06	6.697E-05	5.237E-04	2.160E-03	8.026E-03	2.748E-03
2.00E 00--3.50E 00	4.284E-05	5.872E-05	3.724E-05	1.996E-05	1.651E-04	8.035E-04	2.557E-03	6.911E-03	3.005E-03
1.50E 00--2.00E 00	3.973E-05	4.352E-05	3.400E-05	8.047E-05	3.584E-04	1.182E-03	3.053E-03	7.226E-03	3.684E-03
1.00E 00--1.50E 00	3.157E-05	2.559E-05	5.268E-05	2.043E-04	6.403E-04	1.597E-03	3.390E-03	6.627E-03	4.337E-03
0.50E 00--1.00E 00	1.66E 00--2.00E 00	5.759E-06	9.769E-05	3.973E-04	1.004E-03	2.011E-03	3.511E-03	5.511E-03	4.933E-03
0.25E 00--0.50E 00	8.300E-06	2.962E-05	2.359E-04	7.199E-04	1.481E-03	2.449E-03	3.538E-03	4.749E-03	5.918E-03
0.125E 00--0.25E 00	2.676E-05	1.736E-04	5.756E-04	1.241E-03	2.053E-03	2.799E-03	3.300E-03	3.574E-03	7.299E-03
0.0625E 00--0.125E 00	2.285E-04	5.970E-04	1.157E-03	1.833E-03	2.471E-03	2.904E-03	3.044E-03	2.985E-03	9.414E-03
0.03125E 00--0.0625E 00	7.695E-04	1.343E-03	1.905E-03	2.342E-03	2.627E-03	2.815E-03	2.983E-03	3.134E-03	1.270E-02
0.015625E 00--0.03125E 00	2.435E-03	2.900E-03	3.198E-03	3.358E-03	3.506E-03	3.711E-03	4.215E-03	4.636E-03	2.617E-02
0.0078125E 00--0.015625E 00	3.292E-03	3.297E-03	3.426E-03	3.751E-03	4.181E-03	4.531E-03	4.669E-03	4.643E-03	3.714E-02
0.00390625E 00--0.0078125E 00	4.947E-03	5.183E-03	5.472E-03	5.770E-03	6.067E-03	6.378E-03	6.684E-03	6.911E-02	6.730E-02
0.001953125E 00--0.00390625E 00	1.695E-02	1.792E-02	1.897E-02	2.005E-02	2.113E-02	2.211E-02	2.288E-02	2.336E-02	2.143E-01
0.0009765625E 00--0.001953125E 00	5.046E-02	5.271E-02	5.509E-02	5.748E-02	5.976E-02	6.176E-02	6.331E-02	6.423E-02	6.339E-01
0.00048828125E 00--0.0009765625E 00	1.379E-02	1.404E-02	1.430E-02	1.453E-02	1.477E-02	1.496E-02	1.510E-02	1.518E-02	1.727E-01

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 KAD/STERADIAN/SOURCE NEUTRON)

10.00C TO 12.20C MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.0000E-00	7.437E-11	9.616E-11	1.142E-10	1.290E-10	1.365E-10
-9.8940E-01	7.549E-11	9.185E-11	1.155E-10	1.302E-10	1.375E-10
-9.4457E-01	7.789E-11	9.471E-11	1.187E-10	1.334E-10	1.405E-10
-8.6563E-01	7.962E-11	9.684E-11	1.212E-10	1.356E-10	1.423E-10
-7.5504E-01	8.033E-11	9.764E-11	1.228E-10	1.384E-10	1.472E-10
-6.4580E-01	8.280E-11	1.011E-10	1.273E-10	1.438E-10	1.519E-10
-4.5801E-01	8.643E-11	1.056E-10	1.334E-10	1.517E-10	1.611E-10
-2.8160E-01	9.536E-11	1.167E-10	1.476E-10	1.674E-10	1.776E-10
-9.5012E-02	1.086E-10	1.335E-10	1.680E-10	1.901E-10	2.035E-10
9.5012E-02	1.663E-10	1.589E-10	1.977E-10	2.234E-10	2.352E-10
2.8160E-01	1.770E-10	1.834E-10	2.305E-10	2.571E-10	2.698E-10
4.5801E-01	1.979E-10	2.278E-10	2.801E-10	3.095E-10	3.237E-10
6.4580E-01	2.590E-10	3.286E-10	3.413E-10	3.790E-10	3.944E-10
7.5504E-01	5.336E-10	5.186E-10	4.741E-10	5.180E-10	5.347E-10
8.6563E-01	1.513E-09	1.014E-09	8.854E-10	8.398E-10	8.329E-10
9.4457E-01	2.795E-09	2.668E-09	2.225E-09	1.955E-09	1.747E-09
9.8940E-01	1.570E-08	1.526E-08	1.365E-08	1.157E-08	9.554E-09
TOTAL	6.510E-09	6.236E-09	6.083E-09	5.872E-09	5.570E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.0000E-00	1.132E-10	9.366E-11	4.376E-11	1.719E-11	6.100E-12
-9.8940E-01	1.137E-10	9.403E-11	4.391E-11	1.725E-11	6.119E-12
-9.4457E-01	1.155E-10	9.540E-11	4.449E-11	1.747E-11	6.198E-12
-8.6563E-01	1.178E-10	9.740E-11	4.550E-11	1.788E-11	6.346E-12
-7.5504E-01	1.214E-10	1.008E-10	4.712E-11	1.853E-11	6.577E-12
-6.4580E-01	1.270E-10	1.053E-10	4.938E-11	1.944E-11	6.907E-12
-4.5801E-01	1.354E-10	1.124E-10	5.272E-11	2.075E-11	7.366E-12
-2.8160E-01	1.484E-10	1.225E-10	5.740E-11	2.253E-11	7.986E-12
-9.5012E-02	1.660E-10	1.370E-10	6.363E-11	2.488E-11	8.794E-12
9.5012E-02	1.893E-10	1.566E-10	7.164E-11	2.788E-11	9.827E-12
2.8160E-01	2.183E-10	1.789E-10	8.185E-11	3.174E-11	1.116E-11
4.5801E-01	2.562E-10	2.095E-10	9.549E-11	3.689E-11	1.294E-11
6.4580E-01	3.124E-10	2.548E-10	1.153E-10	4.431E-11	1.548E-11
7.5504E-01	4.092E-10	3.311E-10	1.470E-10	5.576E-11	1.928E-11
8.6563E-01	5.958E-10	4.734E-10	2.018E-10	7.448E-11	2.526E-11
9.4457E-01	1.015E-09	7.768E-10	3.055E-10	1.071E-10	3.504E-11
9.8940E-01	3.386E-09	2.229E-09	6.445E-10	1.885E-10	5.514E-11
TOTAL	3.555E-09	2.792E-09	1.187E-09	4.435E-10	1.525E-10

4.389E-09

4.952E-11

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
{CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON}

10.000 TO 12.200 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E 00	1.087E-10	1.337E-10	1.720E-10	1.982E-10	2.138E-10	2.208E-10	2.154E-10
-9.89401E-01	1.102E-10	1.254E-10	1.737E-10	1.998E-10	2.152E-10	2.220E-10	2.163E-10
-9.44575E-01	1.133E-10	1.391E-10	1.779E-10	2.040E-10	2.193E-10	2.258E-10	2.194E-10
-8.65631E-01	1.154E-10	1.417E-10	1.810E-10	2.069E-10	2.218E-10	2.288E-10	2.230E-10
-7.55044E-01	1.158E-10	1.427E-10	1.831E-10	2.108E-10	2.288E-10	2.361E-10	2.300E-10
-6.17876E-01	1.196E-10	1.475E-10	1.866E-10	2.186E-10	2.356E-10	2.437E-10	2.382E-10
-4.58017E-01	1.249E-10	1.541E-10	1.985E-10	2.302E-10	2.491E-10	2.579E-10	2.523E-10
-2.81605E-01	1.376E-10	1.699E-10	2.186E-10	2.528E-10	2.730E-10	2.820E-10	2.747E-10
-9.50125E-02	1.564E-10	1.937E-10	2.480E-10	2.853E-10	3.067E-10	3.154E-10	3.052E-10
9.50125E-02	2.362E-10	2.305E-10	2.917E-10	3.314E-10	3.545E-10	3.599E-10	3.453E-10
2.81605E-01	2.538E-10	2.629E-10	3.337E-10	3.810E-10	4.054E-10	4.153E-10	3.990E-10
4.58017E-01	2.822E-10	3.277E-10	4.080E-10	4.533E-10	4.797E-10	4.845E-10	4.587E-10
6.17876E-01	3.652E-10	4.668E-10	4.903E-10	5.525E-10	5.809E-10	5.887E-10	5.530E-10
7.55044E-01	7.419E-10	7.280E-10	6.782E-10	7.455E-10	7.759E-10	7.755E-10	7.181E-10
8.65631E-01	2.084E-09	1.408E-09	1.247E-09	1.194E-09	1.192E-09	1.168E-09	1.047E-09
9.44575E-01	3.843E-09	3.678E-09	3.086E-09	2.732E-09	2.457E-09	2.239E-09	1.840E-09
9.89401E-01	2.146E-08	2.087E-08	1.872E-08	1.590E-08	1.315E-08	1.078E-08	7.150E-09
TOTAL	9.018E-09	8.777E-09	8.587E-09	8.393E-09	8.066E-09	7.644E-09	6.606E-09

COSINE	500.0	600.0	RANGE (METERS) 900.0	1200.0	1500.0	1800.0
-1.00000E 00	1.939E-10	1.652E-10	8.290E-11	3.416E-11	1.254E-11	4.263E-12
-9.89401E-01	1.946E-10	1.658E-10	8.304E-11	3.425E-11	1.257E-11	4.273E-12
-9.44575E-01	1.972E-10	1.678E-10	8.397E-11	3.462E-11	1.271E-11	4.319E-12
-8.65631E-01	2.007E-10	1.709E-10	8.562E-11	3.531E-11	1.296E-11	4.406E-12
-7.55044E-01	2.069E-10	1.762E-10	8.823E-11	3.638E-11	1.335E-11	4.537E-12
-6.17876E-01	2.147E-10	1.832E-10	9.186E-11	3.788E-11	1.395E-11	4.723E-12
-4.58017E-01	2.275E-10	1.945E-10	9.710E-11	3.998E-11	1.465E-11	4.973E-12
-2.81605E-01	2.468E-10	2.098E-10	1.043E-10	4.279E-11	1.565E-11	5.303E-12
-9.50125E-02	2.727E-10	2.307E-10	1.138E-10	4.643E-11	1.692E-11	5.721E-12
9.50125E-02	3.065E-10	2.580E-10	1.258E-10	5.103E-11	1.852E-11	6.248E-12
2.81605E-01	3.484E-10	2.919E-10	1.410E-10	5.684E-11	2.055E-11	6.914E-12
4.58017E-01	4.027E-10	3.360E-10	1.609E-10	6.447E-11	2.322E-11	7.787E-12
6.17876E-01	4.826E-10	4.004E-10	1.895E-10	7.527E-11	2.693E-11	8.989E-12
7.55044E-01	6.190E-10	5.084E-10	2.347E-10	9.163E-11	3.242E-11	1.073E-11
8.65631E-01	8.802E-10	7.080E-10	3.120E-10	1.182E-10	4.095E-11	1.334E-11
9.44575E-01	1.464E-09	1.130E-09	4.575E-10	1.642E-10	5.475E-11	1.737E-11
9.89401E-01	4.731E-09	3.137E-09	9.290E-10	2.782E-10	8.304E-11	2.453E-11
TOTAL	5.481E-09	4.402E-09	1.980E-09	7.708E-10	2.731E-10	9.068E-11

4 PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

1C.000 TO 12.200 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	7.679E-09	9.369E-09	1.186E-08	1.347E-08	1.431E-08
-9.89401E-01	7.806E-09	9.511E-09	1.201E-08	1.360E-08	1.443E-08
-9.44575E-01	8.081E-09	9.837E-09	1.237E-08	1.396E-08	1.477E-08
-8.65631E-01	8.279E-09	1.008E-08	1.265E-08	1.420E-08	1.497E-08
-7.55044E-01	8.322E-09	1.016E-08	1.282E-08	1.450E-08	1.550E-08
-6.17876E-01	8.610E-09	1.053E-08	1.329E-08	1.506E-08	1.597E-08
-4.58017E-01	8.973E-09	1.097E-08	1.389E-08	1.586E-08	1.690E-08
-2.81605E-01	9.906E-09	1.113E-08	1.535E-08	1.749E-08	1.862E-08
-9.50125E-02	1.130E-08	1.389E-08	1.752E-08	1.987E-08	2.108E-08
2.81605E-02	1.734E-08	1.659E-08	2.065E-08	2.340E-08	2.468E-08
4.58017E-01	1.853E-08	1.915E-08	2.404E-08	2.688E-08	2.826E-08
6.17876E-01	2.073E-08	2.384E-08	2.931E-08	3.239E-08	3.591E-08
7.55044E-01	2.752E-08	3.458E-08	3.564E-08	3.963E-08	4.126E-08
8.65631E-01	5.784E-08	5.552E-08	4.987E-08	4.435E-08	5.610E-08
9.44575E-01	1.665E-07	1.103E-07	9.438E-08	8.894E-08	8.602E-08
9.89401E-01	3.085E-07	2.931E-07	2.424E-07	2.111E-07	1.876E-07
	1.750E-06	1.698E-06	1.516E-06	1.281E-06	1.055E-06
TOTAL	7.123E-07	6.849E-07	6.559E-07	6.297E-07	5.953E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.213E-08	1.011E-08	4.803E-09	1.910E-09	6.835E-10
-9.89401E-01	1.219E-08	1.015E-08	4.821E-09	1.916E-09	6.856E-10
-9.44575E-01	1.238E-08	1.030E-08	4.884E-09	1.941E-09	6.941E-10
-8.65631E-01	1.263E-08	1.052E-08	4.993E-09	1.985E-09	7.101E-10
-7.55044E-01	1.307E-08	1.088E-08	5.165E-09	2.054E-09	7.349E-10
-6.17876E-01	1.359E-08	1.134E-08	5.403E-09	2.151E-09	7.701E-10
-4.58017E-01	1.447E-08	1.208E-08	5.755E-09	2.289E-09	8.189E-10
-2.81605E-01	1.583E-08	1.318E-08	6.247E-09	2.478E-09	8.846E-10
-9.50125E-02	1.767E-08	1.466E-08	6.900E-09	2.724E-09	9.699E-10
9.50125E-02	2.010E-08	1.666E-08	7.740E-09	3.039E-09	1.078E-09
2.81605E-01	2.313E-08	1.903E-08	8.804E-09	3.442E-09	1.218E-09
4.58017E-01	2.706E-08	2.221E-08	1.022E-08	3.978E-09	1.403E-09
6.17876E-01	3.290E-08	2.691E-08	1.227E-08	4.749E-09	1.667E-09
7.55044E-01	4.307E-08	3.491E-08	1.559E-08	5.942E-09	2.063E-09
8.65631E-01	6.288E-08	4.999E-08	2.136E-08	7.906E-09	2.688E-09
9.44575E-01	1.079E-07	8.238E-08	3.240E-08	1.136E-08	3.717E-09
9.89401E-01	3.690E-07	2.418E-07	6.923E-08	2.013E-08	5.866E-09
TOTAL	3.787E-07	2.978E-07	1.275E-07	4.794E-08	1.657E-08

5.556E-07 4.674E-07

5.403E-09

10.000 TO 12.200 MEV NEUTRON SOURCE

4 PI R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E 00	3.994E-11	4.647E-11	5.453E-11	5.957E-11	5.960E-11	5.860E-11
-9.89401E-01	4.092E-11	4.752E-11	5.559E-11	5.952E-11	6.042E-11	5.928E-11
-9.44575E-01	4.289E-11	4.986E-11	5.813E-11	6.195E-11	6.260E-11	6.118E-11
-8.65631E-01	4.412E-11	5.133E-11	5.970E-11	6.305E-11	6.324E-11	6.201E-11
-7.55044E-01	4.396E-11	5.131E-11	6.001E-11	6.416E-11	6.602E-11	6.466E-11
-6.17876E-01	4.553E-11	5.320E-11	6.228E-11	6.671E-11	6.756E-11	6.641E-11
-4.58017E-01	4.743E-11	5.542E-11	6.510E-11	7.054E-11	7.207E-11	7.106E-11
-2.81605E-01	5.348E-11	6.272E-11	7.397E-11	8.008E-11	8.174E-11	8.045E-11
-9.50125E-02	6.266E-11	7.412E-11	8.745E-11	9.441E-11	9.601E-11	9.407E-11
9.50125E-02	1.022E-10	8.936E-11	1.025E-10	1.191E-10	1.208E-10	1.116E-10
2.81605E-01	1.129E-10	1.081E-10	1.297E-10	1.337E-10	1.347E-10	1.362E-10
4.58017E-01	1.251E-10	1.415E-10	1.625E-10	1.710E-10	1.722E-10	1.625E-10
6.17876E-01	1.767E-10	2.105E-10	1.948E-10	2.104E-10	2.107E-10	2.080E-10
7.55044E-01	4.059E-10	3.682E-10	2.989E-10	3.092E-10	3.089E-10	2.951E-10
8.65631E-01	1.239E-09	7.842E-10	6.135E-10	5.487E-10	5.254E-10	4.998E-10
9.44575E-01	2.329E-09	2.177E-09	1.739E-09	1.459E-09	1.256E-09	1.105E-09
9.89401E-01	1.360E-08	1.314E-08	1.163E-08	9.748E-09	7.949E-09	6.417E-09
TOTAL	5.154E-09	4.797E-09	4.324E-09	3.943E-09	3.556E-09	3.178E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	4.482E-11	3.646E-11	1.670E-11	6.552E-12	2.333E-12	7.775E-13
-9.89401E-01	4.513E-11	3.667E-11	1.676E-11	6.574E-12	2.340E-12	7.796E-13
-9.44575E-01	4.613E-11	3.738E-11	1.701E-11	6.660E-12	2.369E-12	7.889E-13
-8.65631E-01	4.703E-11	3.815E-11	1.739E-11	6.808E-12	2.421E-12	8.060E-13
-7.55044E-01	4.888E-11	3.962E-11	1.802E-11	7.044E-12	2.503E-12	8.328E-13
-6.17876E-01	5.075E-11	4.126E-11	1.885E-11	7.378E-12	2.622E-12	8.719E-13
-4.58017E-01	5.458E-11	4.438E-11	2.022E-11	7.890E-12	2.795E-12	9.277E-13
-2.81605E-01	6.121E-11	4.952E-11	2.228E-11	8.523E-12	3.038E-12	1.004E-12
-9.50125E-02	7.042E-11	5.659E-11	2.510E-11	9.608E-12	3.562E-12	1.106E-12
9.50125E-02	8.282E-11	6.604E-11	2.876E-11	1.088E-11	3.779E-12	1.236E-12
2.81605E-01	9.800E-11	7.770E-11	3.339E-11	1.253E-11	4.324E-12	1.409E-12
4.58017E-01	1.177E-10	9.312E-11	3.976E-11	1.483E-11	5.095E-12	1.654E-12
6.17876E-01	1.491E-10	1.177E-10	4.992E-11	1.848E-11	6.305E-12	2.034E-12
7.55044E-01	2.096E-10	1.644E-10	6.829E-11	2.489E-11	8.354E-12	2.664E-12
8.65631E-01	3.390E-10	2.612E-10	1.038E-10	3.651E-11	1.196E-11	3.736E-12
9.44575E-01	6.543E-10	4.854E-10	1.778E-10	5.898E-11	1.849E-11	5.586E-12
9.89401E-01	2.635E-09	1.687E-09	4.492E-10	1.221E-10	3.357E-11	9.272E-12
TOTAL	1.900E-09	1.425E-09	5.521E-10	1.956E-10	6.511E-11	2.069E-11

4.01 R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

10.000 TO 12.200 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	9.925E-10	1.200E-09	1.502E-09	1.694E-09	1.791E-09
-9.89401E-01	1.020E-09	1.231E-09	1.534E-09	1.723E-09	1.814E-09
-9.44575E-01	1.083E-09	1.305E-09	1.615E-09	1.801E-09	1.897E-09
-8.65631E-01	1.131E-09	1.362E-09	1.678E-09	1.852E-09	1.938E-09
-7.55044E-01	1.140E-09	1.377E-09	1.704E-09	1.899E-09	2.024E-09
-6.17876E-01	1.184E-09	1.430E-09	1.768E-09	1.972E-09	2.080E-09
-4.58017E-01	1.224E-09	1.478E-09	1.832E-09	2.045E-09	2.178E-09
-2.81605E-01	1.261E-09	1.515E-09	1.871E-09	2.098E-09	2.241E-09
-9.50125E-02	1.292E-09	1.546E-09	1.902E-09	2.129E-09	2.285E-09
9.50125E-02	2.492E-09	2.329E-09	2.826E-09	3.343E-09	3.012E-09
2.81605E-01	2.702E-09	2.732E-09	3.376E-09	3.671E-09	3.809E-09
4.53017E-01	3.043E-09	3.445E-09	4.137E-09	4.521E-09	4.673E-09
6.17876E-01	4.406E-09	5.223E-09	5.076E-09	5.559E-09	5.707E-09
7.55044E-01	1.028E-08	9.246E-09	7.445E-09	7.922E-09	8.067E-09
8.65631E-01	3.165E-08	1.991E-08	1.534E-08	1.385E-08	1.342E-08
9.44575E-01	5.953E-08	5.543E-08	4.404E-08	3.688E-08	3.155E-08
9.89401E-01	3.521E-07	3.394E-07	2.992E-07	2.508E-07	2.032E-07
TOTAL	1.318E-07	1.229E-07	1.117E-07	1.030E-07	9.412E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.488E-09	1.232E-09	5.765E-10	2.269E-10	8.059E-11
-9.89401E-01	1.498E-09	1.239E-09	5.789E-10	2.277E-10	8.086E-11
-9.44575E-01	1.532E-09	1.263E-09	5.879E-10	2.309E-10	8.195E-11
-8.65631E-01	1.568E-09	1.293E-09	6.021E-10	2.365E-10	8.393E-11
-7.55044E-01	1.630E-09	1.343E-09	6.243E-10	2.451E-10	8.697E-11
-6.17876E-01	1.691E-09	1.397E-09	6.590E-10	2.569E-10	9.125E-11
-4.58017E-01	1.801E-09	1.491E-09	6.971E-10	2.741E-10	9.728E-11
-2.81605E-01	1.984E-09	1.638E-09	7.607E-10	2.980E-10	1.055E-10
-9.50125E-02	2.238E-09	1.838E-09	8.468E-10	3.298E-10	1.163E-10
9.50125E-02	2.581E-09	2.107E-09	9.585E-10	3.707E-10	1.302E-10
2.81605E-01	3.002E-09	2.440E-09	1.099E-09	4.228E-10	1.480E-10
4.58017E-01	3.542E-09	2.871E-09	1.286E-09	4.927E-10	1.719E-10
6.17876E-01	4.367E-09	3.528E-09	1.567E-09	5.960E-10	2.068E-10
7.55044E-01	5.895E-09	4.715E-09	2.043E-09	7.634E-10	2.613E-10
8.65631E-01	9.077E-09	7.100E-09	2.942E-09	1.053E-09	3.512E-10
9.44575E-01	1.674E-08	1.253E-08	4.698E-09	1.589E-09	5.066E-10
9.89401E-01	6.648E-08	4.244E-08	1.129E-08	3.088E-09	8.585E-10
TOTAL	5.383E-08	4.125E-08	1.677E-08	6.116E-09	2.074E-09

6.871E-08

8.539E-08

2.074E-09

6.676E-10

2.074E-09

6.676E-10

2.074E-09

6.676E-10

2.074E-09

6.676E-10

2.074E-09

6.676E-10

## 10.00C TO 12.20C MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-00	1.469E-C9	1.738E-C9	2.098E-C9	2.304E-C9	2.385E-C9	2.376E-C9	2.183E-C9
-9.89401E-01	1.515E-C9	1.788E-C9	2.150E-C9	2.351E-C9	2.425E-C9	2.410E-C9	2.205E-C9
-9.44575E-01	1.617E-C9	1.908E-C9	2.281E-C9	2.475E-C9	2.536E-C9	2.506E-C9	2.275E-C9
-8.65631E-01	1.694E-C9	2.002E-C9	2.378E-C9	2.551E-C9	2.588E-C9	2.562E-C9	2.329E-C9
-7.55044E-01	1.706E-C9	2.020E-C9	2.414E-C9	2.617E-C9	2.723E-C9	2.688E-C9	2.434E-C9
-6.17876E-01	1.777E-C9	2.104E-C9	2.512E-C9	2.725E-C9	2.785E-C9	2.758E-C9	2.511E-C9
-4.58017E-01	1.842E-C9	2.178E-C9	2.607E-C9	2.861E-C9	2.930E-C9	2.930E-C9	2.679E-C9
-2.81605E-01	2.045E-C9	2.448E-C9	2.936E-C9	3.217E-C9	3.315E-C9	3.287E-C9	2.994E-C9
-9.50125E-02	2.410E-C9	2.877E-C9	3.446E-C9	3.763E-C9	3.825E-C9	3.813E-C9	3.445E-C9
9.50125E-02	3.975E-C9	3.465E-C9	4.023E-C9	4.739E-C9	4.849E-C9	4.499E-C9	4.073E-C9
2.81605E-01	4.271E-C9	4.247E-C9	5.160E-C9	5.290E-C9	5.373E-C9	5.483E-C9	4.827E-C9
4.58017E-01	4.789E-C9	5.373E-C9	6.239E-C9	6.773E-C9	6.874E-C9	6.516E-C9	5.800E-C9
6.17876E-01	7.044E-C9	8.250E-C9	7.759E-C9	8.292E-C9	8.361E-C9	8.314E-C9	7.312E-C9
7.55044E-01	1.672E-C8	1.487E-C8	1.166E-C8	1.221E-C8	1.226E-C8	1.175E-C8	1.030E-C8
8.65631E-01	5.195E-C8	3.244E-C8	2.459E-C8	2.183E-C8	2.031E-C8	1.993E-C8	1.692E-C8
9.44575E-01	9.792E-08	9.101E-C8	7.191E-C8	5.949E-C8	5.079E-C8	4.445E-C8	3.442E-C8
9.89401E-01	5.806E-C7	5.595E-C7	4.929E-C7	4.114E-C7	3.339E-C7	2.683E-C7	1.706E-C7
TOTAL	2.150E-C7	1.989E-C7	1.779E-C7	1.615E-C7	1.453E-C7	1.297E-C7	1.015E-C7

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E-00	1.873E-C9	1.536E-C9	7.114E-10	2.803E-10	9.996E-11	3.332E-11
-9.89401E-01	1.888E-C9	1.546E-C9	7.145E-10	2.812E-10	1.003E-10	3.342E-11
-9.44575E-01	1.938E-C9	1.580E-C9	7.261E-10	2.851E-10	1.015E-10	3.382E-11
-8.65631E-01	1.984E-C9	1.618E-C9	7.431E-10	2.916E-10	1.038E-10	3.455E-11
-7.55044E-01	2.068E-C9	1.683E-C9	7.701E-10	3.017E-10	1.073E-10	3.569E-11
-6.17876E-01	2.143E-C9	1.750E-C9	8.044E-10	3.156E-10	1.122E-10	3.733E-11
-4.58017E-01	2.291E-C9	1.872E-C9	8.599E-10	3.365E-10	1.194E-10	3.966E-11
-2.81605E-01	2.549E-C9	2.075E-C9	9.426E-10	3.665E-10	1.295E-10	4.286E-11
-9.50125E-02	2.912E-C9	2.356E-C9	1.057E-09	4.071E-10	1.429E-10	4.710E-11
9.50125E-02	3.409E-C9	2.737E-C9	1.207E-09	4.600E-10	1.604E-10	5.260E-11
2.81605E-01	4.022E-C9	3.211E-C9	1.398E-C9	5.285E-10	1.832E-10	5.985E-11
4.58017E-01	4.814E-C9	3.833E-C9	1.658E-C9	6.233E-10	2.151E-10	7.000E-11
6.17876E-01	6.061E-C9	4.815E-C9	2.066E-C9	7.702E-10	2.638E-10	8.535E-11
7.55044E-01	8.456E-C9	6.66E-C9	2.791E-C9	1.020E-C9	3.442E-10	1.100E-10
8.65631E-01	1.358E-C8	1.048E-C8	4.177E-09	1.471E-09	4.824E-10	1.509E-10
9.44575E-01	2.611E-C8	1.933E-C8	7.046E-C9	2.330E-C9	7.289E-10	2.200E-10
9.89401E-01	1.081E-C7	6.863E-C8	1.788E-C8	4.783E-09	1.301E-09	3.571E-10
TOTAL	7.761E-C8	5.828E-C8	2.270E-08	8.076E-C9	2.697E-C9	8.593E-10



4 PI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CH\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

10.000 TO 12.200 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	4.236E-10	4.652E-10	4.955E-10	4.931E-10	4.698E-10
-9.89401E-01	4.431E-10	4.868E-10	5.172E-10	5.124E-10	4.861E-10
-9.44575E-01	4.843E-10	5.347E-10	5.688E-10	5.608E-10	5.286E-10
-8.65631E-01	5.095E-10	5.642E-10	5.986E-10	5.795E-10	5.362E-10
-7.55044E-01	5.034E-10	5.591E-10	5.969E-10	5.901E-10	5.777E-10
-6.17876E-01	5.254E-10	5.842E-10	6.234E-10	6.175E-10	5.814E-10
-4.58017E-01	5.457E-10	6.050E-10	6.471E-10	6.545E-10	6.277E-10
-2.81605E-01	6.385E-10	7.146E-10	7.544E-10	7.872E-10	7.577E-10
-9.50125E-02	7.834E-10	8.917E-10	9.773E-10	9.947E-10	9.576E-10
-9.50125E-02	1.354E-09	1.133E-09	1.197E-09	1.379E-09	1.337E-09
2.81605E-01	1.627E-09	1.397E-09	1.593E-09	1.542E-09	1.475E-09
4.58017E-01	1.747E-09	1.972E-09	2.128E-09	2.086E-09	2.009E-09
6.17876E-01	2.772E-09	3.041E-09	3.248E-09	3.260E-09	2.489E-09
7.55044E-01	7.156E-09	6.047E-09	4.268E-09	4.141E-09	3.990E-09
8.65631E-01	2.334E-08	1.404E-08	9.767E-09	8.220E-09	7.586E-09
9.44575E-01	4.446E-08	4.082E-08	3.137E-08	2.512E-08	2.083E-08
9.89401E-01	2.692E-07	2.586E-07	2.266E-07	1.880E-07	1.516E-07
TOTAL	9.452E-08	8.526E-08	7.238E-08	6.266E-08	5.371E-08
					4.580E-08
					3.287E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	2.742E-10	2.059E-10	7.808E-11	2.681E-11	8.677E-12
-9.89401E-01	2.797E-10	2.095E-10	7.898E-11	2.705E-11	8.740E-12
-9.44575E-01	2.962E-10	2.203E-10	8.198E-11	2.789E-11	8.975E-12
-8.65631E-01	3.057E-10	2.280E-10	8.513E-11	2.897E-11	9.320E-12
-7.55044E-01	3.265E-10	2.428E-10	9.022E-11	3.063E-11	9.839E-12
-6.17876E-01	3.365E-10	2.524E-10	9.538E-11	3.266E-11	1.055E-11
-4.58017E-01	3.727E-10	2.808E-10	1.066E-10	3.648E-11	1.173E-11
-2.81605E-01	4.494E-10	3.372E-10	1.259E-10	4.280E-11	1.358E-11
-9.50125E-02	5.604E-10	4.177E-10	1.540E-10	5.132E-11	1.617E-11
-9.50125E-02	7.128E-10	5.277E-10	1.906E-10	6.259E-11	1.951E-11
2.81605E-01	8.897E-10	6.561E-10	2.349E-10	7.672E-11	2.383E-11
4.58017E-01	1.109E-09	8.203E-10	2.958E-10	9.708E-11	3.025E-11
6.17876E-01	1.487E-09	1.107E-09	4.047E-10	1.338E-10	4.180E-11
7.55044E-01	2.327E-09	1.736E-09	6.351E-10	2.089E-10	6.474E-11
8.65631E-01	4.339E-09	3.209E-09	1.143E-09	3.663E-10	1.116E-10
9.44575E-01	9.672E-09	6.930E-09	2.309E-09	7.038E-10	2.047E-10
9.89401E-01	4.721E-08	2.941E-08	7.183E-09	1.789E-09	4.528E-10
TOTAL	2.320E-08	1.617E-08	5.198E-09	1.591E-09	4.719E-10
					1.369E-10

4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS) 1C.0CC TO 12.200 MEV NEUTRON SOURCE  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E 00	1.016E-10	1.240E-10	1.565E-10	1.770E-10	1.897E-10
-9.89401E-01	1.030E-10	1.255E-10	1.581E-10	1.785E-10	1.909E-10
-9.44575E-01	1.060E-10	1.290E-10	1.621E-10	1.825E-10	1.944E-10
-8.65631E-01	1.080E-10	1.315E-10	1.651E-10	1.851E-10	1.972E-10
-7.55044E-01	1.083E-10	1.324E-10	1.670E-10	1.877E-10	2.038E-10
-6.17876E-01	1.118E-10	1.368E-10	1.729E-10	2.012E-10	2.107E-10
-4.58017E-01	1.166E-10	1.428E-10	1.810E-10	2.065E-10	2.238E-10
-2.81605E-01	1.284E-10	1.575E-10	1.997E-10	2.275E-10	2.461E-10
-9.50125E-02	1.459E-10	1.796E-10	2.272E-10	2.734E-10	2.773E-10
9.50125E-02	2.207E-10	2.145E-10	2.689E-10	3.009E-10	3.190E-10
2.81605E-01	2.360E-10	2.446E-10	3.074E-10	3.482E-10	3.712E-10
4.58017E-01	2.848E-10	3.053E-10	3.777E-10	4.159E-10	4.366E-10
6.17876E-01	3.424E-10	4.370E-10	4.561E-10	5.102E-10	5.353E-10
7.55044E-01	6.974E-10	6.829E-10	6.322E-10	6.921E-10	7.120E-10
8.65631E-01	1.963E-09	1.324E-09	1.169E-09	1.115E-09	1.082E-09
9.44575E-01	3.620E-09	3.463E-09	2.902E-09	2.564E-09	2.092E-09
9.89401E-01	2.022E-08	1.967E-08	1.764E-08	1.497E-08	1.238E-08
TOTAL	8.481E-09	8.238E-09	8.015E-09	7.777E-09	6.960E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E 00	1.554E-10	1.285E-10	5.984E-11	2.344E-11	8.293E-12
-9.89401E-01	1.561E-10	1.290E-10	6.039E-11	2.351E-11	8.319E-12
-9.44575E-01	1.584E-10	1.308E-10	6.083E-11	2.382E-11	8.429E-12
-8.65631E-01	1.615E-10	1.335E-10	6.224E-11	2.439E-11	8.537E-12
-7.55044E-01	1.670E-10	1.382E-10	6.448E-11	2.529E-11	8.960E-12
-6.17876E-01	1.741E-10	1.443E-10	6.763E-11	2.657E-11	9.422E-12
-4.58017E-01	1.857E-10	1.541E-10	7.227E-11	2.840E-11	1.006E-11
-2.81605E-01	2.034E-10	1.686E-10	7.873E-11	3.087E-11	1.093E-11
-9.50125E-02	2.273E-10	1.878E-10	8.730E-11	3.412E-11	1.205E-11
9.50125E-02	2.588E-10	2.131E-10	9.832E-11	3.827E-11	1.348E-11
2.81605E-01	2.981E-10	2.448E-10	1.123E-10	4.358E-11	1.533E-11
4.58017E-01	3.493E-10	2.863E-10	1.309E-10	5.066E-11	1.778E-11
6.17876E-01	4.249E-10	3.473E-10	1.578E-10	6.077E-11	2.125E-11
7.55044E-01	5.541E-10	4.494E-10	2.009E-10	7.627E-11	2.642E-11
8.65631E-01	8.011E-10	6.383E-10	2.738E-10	1.014E-10	3.449E-11
9.44575E-01	1.352E-09	1.037E-09	4.116E-10	1.450E-10	4.763E-11
9.89401E-01	4.431E-09	2.929E-09	8.564E-10	2.528E-10	7.442E-11
TOTAL	4.799E-09	3.782E-09	1.617E-09	6.057E-10	2.085E-10

6.775E-11

## 10.000 TO 12.200 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSGN DOSE (GAMMAS)  
{CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON}

COSINE	RANGE (METERS)				
	75.C	100.C	150.C	200.C	250.C
-1.00000E-00	1.223E-11	2.039E-11	2.214E-11	2.220E-11	2.122E-11
-9.89401E-01	1.834E-11	2.053E-11	2.234E-11	2.245E-11	2.151E-11
-9.44575E-01	1.876E-11	2.107E-11	2.308E-11	2.336E-11	2.254E-11
-8.65631E-01	1.959E-11	2.206E-11	2.439E-11	2.490E-11	2.425E-11
-7.55044E-01	2.069E-11	2.345E-11	2.610E-11	2.680E-11	2.622E-11
-6.17876E-01	2.221E-11	2.526E-11	2.820E-11	2.901E-11	2.839E-11
-4.58017E-01	2.422E-11	2.764E-11	3.089E-11	3.176E-11	3.103E-11
-2.81605E-01	2.691E-11	3.084E-11	3.455E-11	3.552E-11	3.472E-11
-9.50125E-02	3.053E-11	3.523E-11	3.965E-11	4.097E-11	4.015E-11
9.50125E-02	3.732E-11	5.060E-11	4.039E-11	5.166E-11	5.145E-11
2.81605E-01	5.010E-11	5.103E-11	6.019E-11	5.674E-11	5.617E-11
4.58017E-01	5.972E-11	5.418E-11	6.918E-11	7.865E-11	7.260E-11
6.17876E-01	6.077E-11	9.268E-11	1.065E-10	9.907E-11	9.950E-11
7.55044E-01	8.034E-11	1.108E-10	1.207E-10	1.475E-10	1.492E-10
8.65631E-01	1.327E-10	1.454E-10	2.203E-10	2.291E-10	2.353E-10
9.44575E-01	2.114E-10	2.745E-10	3.459E-10	4.117E-10	4.410E-10
9.89401E-01	3.170E-10	4.768E-10	7.306E-10	9.041E-10	1.019E-09
TOTAL	6.537E-10	7.996E-10	9.709E-10	1.071E-09	1.102E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.252E-11	9.449E-12	3.662E-12	1.299E-12	4.396E-13
-9.89401E-01	1.285E-11	9.767E-12	3.902E-12	1.442E-12	5.186E-13
-9.44575E-01	1.402E-11	1.085E-11	4.555E-12	1.832E-12	5.186E-13
-8.65631E-01	1.572E-11	1.236E-11	5.554E-12	2.360E-12	7.793E-13
-7.55044E-01	1.729E-11	1.367E-11	6.212E-12	2.658E-12	9.783E-13
-6.17876E-01	1.856E-11	1.461E-11	6.472E-12	2.718E-12	1.157E-12
-4.58017E-01	1.992E-11	1.551E-11	6.820E-12	2.599E-12	1.098E-12
-2.81605E-01	2.211E-11	1.713E-11	7.194E-12	2.848E-12	1.025E-12
-9.50125E-02	2.589E-11	2.016E-11	8.644E-12	3.515E-12	1.114E-12
9.50125E-02	3.177E-11	2.499E-11	1.108E-11	4.678E-12	1.415E-12
2.81605E-01	4.018E-11	3.184E-11	1.437E-11	6.128E-12	1.964E-12
4.58017E-01	5.235E-11	4.163E-11	1.877E-11	7.893E-12	2.595E-12
6.17876E-01	7.214E-11	5.769E-11	2.617E-11	1.091E-11	3.252E-12
7.55044E-01	1.091E-10	8.869E-11	4.203E-11	1.822E-11	4.402E-12
8.65631E-01	1.870E-10	1.559E-10	7.986E-11	3.741E-11	7.641E-12
9.44575E-01	3.791E-10	3.249E-10	1.801E-10	9.071E-11	1.694E-11
9.89401E-01	1.032E-09	9.196E-10	5.581E-10	3.020E-10	4.386E-11
TOTAL	8.543E-10	7.093E-10	3.629E-10	1.721E-10	7.952E-11

3.648E-11

## 10.000 TO 12.200 MEV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E 00	1.849E-09	2.093E-09	2.333E-09	2.403E-09	2.247E-09
-9.89401E-01	1.859E-09	2.107E-09	2.353E-09	2.427E-09	2.278E-09
-9.44575E-01	1.901E-09	2.160E-09	2.426E-09	2.518E-09	2.390E-09
-8.65631E-01	1.979E-09	2.258E-09	2.556E-09	2.672E-09	2.570E-09
-7.55044E-01	2.092E-09	2.395E-09	2.726E-09	2.861E-09	2.769E-09
-6.17876E-01	2.242E-09	2.575E-09	2.936E-09	3.083E-09	2.977E-09
-4.58017E-01	2.441E-09	2.810E-09	3.204E-09	3.359E-09	3.226E-09
-2.81605E-01	2.706E-09	3.128E-09	3.567E-09	3.738E-09	3.717E-09
-9.50125E-02	3.064E-09	3.562E-09	4.074E-09	4.279E-09	4.104E-09
9.50125E-02	3.737E-09	5.071E-09	4.142E-09	5.373E-09	4.809E-09
2.81605E-01	4.967E-09	5.140E-09	6.120E-09	5.843E-09	6.042E-09
4.58017E-01	5.571E-09	5.423E-09	6.378E-09	8.016E-09	7.541E-09
6.17876E-01	6.048E-09	9.238E-09	1.069E-08	1.003E-08	1.019E-08
7.55044E-01	7.974E-09	1.102E-08	1.207E-08	1.481E-08	1.506E-08
8.65631E-01	1.314E-08	1.443E-08	2.191E-08	2.285E-08	2.356E-08
9.44575E-01	2.091E-08	2.716E-08	3.429E-08	4.088E-08	4.453E-08
9.89401E-01	3.134E-08	4.715E-08	7.232E-08	8.953E-08	1.010E-07
TOTAL	6.514E-08	7.996E-08	9.784E-08	1.087E-07	1.125E-07

1.118E-07 1.030E-07

## RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

COSINE

TOTAL

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.563E-09	1.228E-09	5.312E-10	2.112E-10	8.176E-11
-9.89401E-01	1.596E-09	1.260E-09	5.549E-10	2.254E-10	8.956E-11
-9.44575E-01	1.713E-09	1.368E-09	6.203E-10	2.642E-10	1.114E-10
-8.65631E-01	1.884E-09	1.521E-09	7.205E-10	3.171E-10	1.355E-10
-7.55044E-01	2.054E-09	1.655E-09	7.887E-10	3.481E-10	1.537E-10
-6.17876E-01	2.179E-09	1.756E-09	8.192E-10	3.564E-10	1.491E-10
-4.58017E-01	2.324E-09	1.855E-09	8.597E-10	3.476E-10	1.431E-10
-2.81605E-01	2.552E-09	2.026E-09	9.030E-10	3.750E-10	1.530E-10
-9.50125E-02	2.939E-09	2.337E-09	1.053E-09	4.439E-10	1.841E-10
9.50125E-02	3.534E-09	2.827E-09	1.301E-09	5.618E-10	2.395E-10
2.81605E-01	4.378E-09	3.517E-09	1.533E-09	7.081E-10	3.031E-10
4.58017E-01	5.594E-09	4.495E-09	2.074E-09	8.852E-10	3.692E-10
6.17876E-01	7.556E-09	6.089E-09	2.807E-09	1.183E-09	4.823E-10
7.55044E-01	1.120E-08	9.144E-09	4.365E-09	1.899E-09	7.979E-10
8.65631E-01	1.687E-08	1.576E-08	8.078E-09	3.776E-09	1.706E-09
9.44575E-01	3.783E-08	3.244E-08	1.797E-08	9.036E-09	4.358E-09
9.89401E-01	1.027E-07	9.157E-08	5.567E-08	3.016E-08	1.547E-08
TOTAL	8.926E-08	7.448E-08	3.838E-08	1.823E-08	8.414E-09

3.855E-09

10.000 TO 12.200 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	2.156E-09	2.627E-09	3.348E-09	3.850E-09	4.146E-09
-9.89401E-01	2.167E-09	2.641E-09	3.367E-09	3.875E-09	4.174E-09
-9.44575E-01	2.207E-09	2.693E-09	3.442E-09	3.969E-09	4.284E-09
-8.65631E-01	2.283E-09	2.790E-09	3.575E-09	4.131E-09	4.467E-09
-7.55044E-01	2.393E-09	2.927E-09	3.752E-09	4.336E-09	4.688E-09
-6.17876E-01	2.546E-09	3.107E-09	3.973E-09	4.581E-09	4.943E-09
-4.58017E-01	2.734E-09	3.343E-09	4.257E-09	4.890E-09	5.258E-09
-2.81605E-01	2.992E-09	3.659E-09	4.638E-09	5.307E-09	5.687E-09
-9.50125E-02	3.339E-09	4.088E-09	5.161E-09	5.888E-09	6.294E-09
9.50125E-02	3.981E-09	5.522E-09	7.292E-09	8.997E-09	1.074E-08
2.81605E-01	5.159E-09	5.607E-09	7.191E-09	7.550E-09	8.044E-09
4.58017E-01	6.075E-09	5.922E-09	8.085E-09	9.695E-09	1.028E-08
6.17876E-01	6.192E-09	9.507E-09	1.162E-08	1.172E-08	1.239E-08
7.55044E-01	8.009E-09	1.121E-08	1.301E-08	1.632E-08	1.716E-08
8.65631E-01	1.283E-08	1.443E-08	2.225E-08	2.395E-08	2.528E-08
9.44575E-01	2.003E-08	2.628E-08	3.384E-08	4.082E-08	4.427E-08
9.89401E-01	2.972E-08	4.481E-08	6.908E-08	8.593E-08	9.719E-08
TOTAL	6.696E-08	8.457E-08	1.093E-07	1.267E-07	1.361E-07
					1.395E-07
					1.345E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	3.701E-09	3.141E-09	1.621E-09	7.445E-10	3.294E-10
-9.89401E-01	3.735E-09	3.174E-09	1.645E-09	7.586E-10	3.370E-10
-9.44575E-01	3.861E-09	3.289E-09	1.714E-09	7.985E-10	3.590E-10
-8.65631E-01	4.052E-09	3.460E-09	1.823E-09	8.554E-10	3.848E-10
-7.55044E-01	4.249E-09	3.629E-09	1.911E-09	8.961E-10	4.072E-10
-6.17876E-01	4.441E-09	3.783E-09	1.974E-09	9.205E-10	4.105E-10
-4.58017E-01	4.663E-09	3.954E-09	2.038E-09	9.337E-10	4.146E-10
-2.81605E-01	4.983E-09	4.210E-09	2.152E-09	9.852E-10	4.355E-10
-9.50125E-02	5.475E-09	4.618E-09	2.356E-09	1.079E-09	4.777E-10
9.50125E-02	6.184E-09	5.213E-09	2.663E-09	1.224E-09	5.444E-10
2.81605E-01	7.153E-09	6.018E-09	3.060E-09	1.401E-09	6.211E-10
4.58017E-01	8.498E-09	7.118E-09	3.573E-09	1.613E-09	7.032E-10
6.17876E-01	1.057E-08	8.816E-09	4.372E-09	1.944E-09	8.25E-10
7.55044E-01	1.422E-08	1.189E-08	5.947E-09	2.668E-09	1.152E-09
8.65631E-01	2.161E-08	1.827E-08	9.517E-09	4.468E-09	2.021E-09
9.44575E-01	3.938E-08	3.389E-08	1.875E-08	9.360E-09	4.482E-09
9.89401E-01	9.905E-08	8.821E-08	5.320E-08	2.859E-08	1.456E-08
TOTAL	1.202E-07	1.023E-07	5.418E-08	2.583E-08	1.188E-08
					5.410E-09

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

10.000 TO 12.200 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-01	1.899E-09	2.158E-09	2.427E-09	2.523E-09	2.501E-09	2.406E-09	2.095E-09
-9.89401E-01	1.910E-09	2.172E-09	2.447E-09	2.548E-09	2.530E-09	2.437E-09	2.129E-09
-9.44575E-01	1.952E-09	2.226E-09	2.521E-09	2.640E-09	2.635E-09	2.552E-09	2.251E-09
-8.65631E-01	2.032E-09	2.326E-09	2.654E-09	2.797E-09	2.809E-09	2.735E-09	2.437E-09
-7.55044E-01	2.147E-09	2.466E-09	2.827E-09	2.990E-09	3.011E-09	2.938E-09	2.625E-09
-6.17876E-01	2.302E-09	2.649E-09	3.040E-09	3.215E-09	3.233E-09	3.149E-09	2.801E-09
-4.58017E-01	2.503E-09	2.889E-09	3.313E-09	3.496E-09	3.505E-09	3.401E-09	3.000E-09
-2.81605E-01	2.773E-09	3.212E-09	3.583E-09	3.881E-09	3.882E-09	3.756E-09	3.295E-09
-9.50125E-02	3.138E-09	3.654E-09	4.199E-09	4.431E-09	4.434E-09	4.291E-09	3.765E-09
9.50125E-02	3.825E-09	5.193E-09	4.264E-09	5.545E-09	5.582E-09	5.007E-09	4.477E-09
2.81605E-01	5.074E-09	5.268E-09	6.282E-09	6.019E-09	6.051E-09	6.258E-09	5.478E-09
4.58017E-01	6.113E-09	5.553E-09	7.153E-09	8.233E-09	8.318E-09	7.780E-09	6.953E-09
6.17876E-01	6.181E-09	9.443E-09	1.094E-08	1.028E-08	1.041E-08	1.047E-08	9.294E-09
7.55044E-01	8.145E-09	1.125E-08	1.234E-08	1.515E-08	1.541E-08	1.495E-08	1.355E-08
8.65631E-01	1.342E-08	1.473E-08	2.239E-08	2.335E-08	2.409E-08	2.413E-08	2.223E-08
9.44575E-01	2.136E-08	2.774E-08	3.503E-08	4.177E-08	4.481E-08	4.551E-08	4.336E-08
9.89401E-01	3.203E-08	4.819E-08	7.392E-08	9.158E-08	1.033E-07	1.101E-07	1.122E-07
TOTAL	6.663E-08	8.186E-08	1.003E-07	1.117E-07	1.158E-07	1.153E-07	1.066E-07

COSINE	500.0	600.0	RANGE (METERS) 800.0	1200.0	1500.0	1800.0
-1.00000E-01	1.729E-09	1.376E-09	9.133E-10	2.498E-10	9.895E-11	3.921E-11
-9.89401E-01	1.763E-09	1.408E-09	9.376E-10	2.643E-10	1.070E-10	4.328E-11
-9.44575E-01	1.882E-09	1.519E-09	7.247E-10	3.042E-10	1.294E-10	5.515E-11
-8.65631E-01	2.057E-09	1.675E-09	8.071E-10	3.584E-10	1.541E-10	6.729E-11
-7.55044E-01	2.220E-09	1.812E-09	8.766E-10	3.900E-10	1.727E-10	7.599E-11
-6.17876E-01	2.355E-09	1.913E-09	9.070E-10	3.980E-10	1.678E-10	7.154E-11
-4.58017E-01	2.502E-09	2.013E-09	9.267E-10	3.884E-10	1.613E-10	6.638E-11
-2.81605E-01	2.732E-09	2.184E-09	9.897E-10	4.155E-10	1.710E-10	7.149E-11
-9.50125E-02	3.124E-09	2.499E-09	1.141E-09	4.849E-10	2.024E-10	8.517E-11
9.50125E-02	3.724E-09	2.995E-09	1.392E-09	6.042E-10	2.584E-10	1.118E-10
2.81605E-01	4.581E-09	3.693E-09	1.727E-09	7.519E-10	3.226E-10	1.397E-10
4.58017E-01	5.812E-09	4.682E-09	2.171E-09	9.295E-10	3.885E-10	1.624E-10
6.17876E-01	7.800E-09	6.295E-09	2.911E-09	1.229E-09	5.014E-10	2.021E-10
7.55044E-01	1.151E-08	9.39E-09	4.490E-09	1.953E-09	8.202E-10	3.419E-10
8.65631E-01	1.931E-08	1.475E-08	8.269E-09	3.864E-09	1.744E-09	7.794E-10
9.44575E-01	3.869E-08	3.382E-08	1.838E-08	9.243E-09	4.589E-09	2.109E-09
9.89401E-01	1.051E-07	9.382E-08	5.710E-08	3.096E-08	1.589E-08	7.914E-09
TOTAL	9.256E-08	7.736E-08	3.996E-08	1.899E-08	8.765E-09	4.015E-09

4 P1 R\*2 FLUENCE AT 75.0 METERS 8.187 TO 10.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01--1.50E 01	MU=-1.0000	MU=-0.9854	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.5179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-6.622E-04	-5.373E-04	-2.348E-04	3.367E-05	1.004E-04	1.513E-04	8.203E-05	6.793E-05	2.490E-04
6.36E 00--8.19E 00	3.317E-03	3.261E-03	3.077E-03	2.839E-03	2.725E-03	2.860E-03	3.289E-03	3.964E-03	4.790E-03
4.97E 00--6.36E 00	2.006E-03	1.909E-03	1.975E-03	1.947E-03	1.940E-03	1.974E-03	2.063E-03	2.210E-03	2.416E-03
4.07E 00--4.97E 00	1.459E-03	1.463E-03	1.477E-03	1.506E-03	1.552E-03	1.617E-03	1.705E-03	1.821E-03	1.973E-03
3.01E 00--4.07E 00	1.392E-03	1.395E-03	1.408E-03	1.434E-03	1.474E-03	1.531E-03	1.611E-03	1.719E-03	1.865E-03
2.46E 00--3.01E 00	2.198E-03	2.203E-03	2.223E-03	2.262E-03	2.324E-03	2.412E-03	2.534E-03	2.701E-03	2.927E-03
2.35E 00--2.46E 00	2.846E-03	2.851E-03	2.873E-03	2.917E-03	2.988E-03	3.094E-03	3.245E-03	3.454E-03	3.741E-03
1.83E 00--2.35E 00	2.808E-03	2.817E-03	2.850E-03	2.917E-03	3.022E-03	3.170E-03	3.372E-03	3.642E-03	3.998E-03
1.11E 00--1.83E 00	3.203E-03	3.212E-03	3.246E-03	3.315E-03	3.420E-03	3.565E-03	3.757E-03	4.008E-03	4.330E-03
5.50E 01--1.11E 00	4.168E-03	4.176E-03	4.206E-03	4.267E-03	4.358E-03	4.485E-03	4.650E-03	4.860E-03	5.124E-03
3.35E 00--5.50E 01	5.104E-03	5.111E-03	5.136E-03	5.186E-03	5.258E-03	5.355E-03	5.475E-03	5.621E-03	5.794E-03
3.83E 00--3.35E 00	2.610E-02	2.610E-02	2.615E-02	2.627E-02	2.642E-02	2.662E-02	2.686E-02	2.715E-02	2.746E-02
5.83E 00--3.83E 00	2.077E-02	2.078E-02	2.083E-02	2.086E-02	2.094E-02	2.104E-02	2.115E-02	2.129E-02	2.143E-02
1.01E 00--5.83E 00	1.181E 00	1.181E 00	1.183E 00	1.185E 00	1.189E 00	1.193E 00	1.198E 00	1.204E 00	1.210E 00
2.90E 00--1.01E 00	4.939E 00	4.939E 00	4.943E 00	4.952E 00	4.965E 00	4.980E 00	4.999E 00	5.019E 00	5.041E 00
1.07E 00--2.90E 00	1.408E 01	1.409E 01	1.410E 01	1.412E 01	1.416E 01	1.420E 01	1.424E 01	1.430E 01	1.436E 01
3.06E 00--1.07E 00	3.683E 01	3.683E 01	3.686E 01	3.692E 01	3.700E 01	3.709E 01	3.721E 01	3.733E 01	3.747E 01
1.12E 00--3.06E 00	9.693E 01	9.694E 01	9.702E 01	9.715E 01	9.734E 01	9.758E 01	9.785E 01	9.816E 01	9.849E 01
4.14E 00--1.12E 00	2.089E 02	2.090E 02	2.091E 02	2.094E 02	2.098E 02	2.102E 02	2.108E 02	2.114E 02	2.121E 02
0.0	2.987E 02	2.988E 02	2.993E 02	2.994E 02	3.000E 02	3.006E 02	3.013E 02	3.021E 02	3.029E 02
SCALAR FLUX									
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	ANGLE 18
1.22E 01--1.50E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	MU=0.9950
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	1.010E-03	1.150E-03	2.161E-03	8.560E-03	3.316E-02	1.266E-01	2.510E-01	1.672E 00	4.985E-01
6.36E 00--8.19E 00	5.865E-03	7.732E-03	8.977E-03	8.710E-03	1.084E-02	1.799E-02	2.845E-02	4.127E-02	9.309E-02
4.97E 00--6.36E 00	2.779E-03	3.275E-03	3.590E-03	3.857E-03	4.833E-03	6.811E-03	9.180E-03	1.159E-02	4.119E-02
4.07E 00--4.97E 00	2.244E-03	2.631E-03	2.891E-03	3.090E-03	3.799E-03	5.314E-03	7.315E-03	9.680E-03	3.304E-02
3.01E 00--4.07E 00	2.777E-03	2.446E-03	2.766E-03	2.977E-03	3.747E-03	5.449E-03	7.288E-03	1.035E-02	3.325E-02
2.46E 00--3.01E 00	4.577E-03	3.819E-03	4.318E-03	4.673E-03	5.899E-03	8.574E-03	1.217E-02	1.651E-02	5.209E-02
2.35E 00--2.46E 00	4.269E-03	5.033E-03	5.563E-03	5.987E-03	7.445E-03	1.054E-02	1.463E-02	1.954E-02	6.405E-02
1.83E 00--2.35E 00	6.530E-03	5.363E-03	6.102E-03	6.574E-03	8.307E-03	1.218E-02	1.742E-02	2.405E-02	7.250E-02
1.11E 00--1.83E 00	4.882E-03	5.648E-03	6.169E-03	6.578E-03	7.897E-03	1.059E-02	1.400E-02	1.806E-02	6.968E-02
5.50E 01--1.11E 00	5.529E-03	6.057E-03	6.470E-03	6.855E-03	7.714E-03	9.314E-03	1.114E-02	1.303E-02	7.422E-02
1.11E 00--5.50E 01	5.801E-03	5.716E-03	6.308E-03	7.471E-03	7.814E-03	7.121E-03	7.403E-03	1.058E-02	7.656E-02
3.35E 00--1.11E 00	2.796E-02	2.893E-02	2.912E-02	2.785E-02	2.840E-02	3.109E-02	3.033E-02	2.912E-02	3.498E-01
5.83E 00--3.35E 00	2.159E-02	2.175E-02	2.150E-02	2.204E-02	2.218E-02	2.230E-02	2.239E-02	2.244E-02	2.707E-01
1.01E 00--5.83E 00	1.217E 00	1.223E 00	1.230E 00	1.235E 00	1.240E 00	1.245E 00	1.248E 00	1.249E 00	1.526E 01
2.90E 00--1.01E 00	5.064E 00	5.087E 00	5.109E 00	5.128E 00	5.146E 00	5.160E 00	5.175E 00	5.175E 00	6.351E 01
1.07E 00--2.90E 00	1.441E 01	1.447E 01	1.453E 01	1.458E 01	1.462E 01	1.466E 01	1.469E 01	1.470E 01	1.808E 02
3.06E 00--1.07E 00	3.761E 01	3.774E 01	3.788E 01	3.799E 01	3.810E 01	3.818E 01	3.824E 01	3.827E 01	4.718E 02
1.12E 00--3.06E 00	9.883E 01	9.916E 01	9.948E 01	9.977E 01	1.000E 02	1.002E 02	1.004E 02	1.004E 02	1.240E 03
4.14E 00--1.12E 00	2.128E 02	2.134E 02	2.141E 02	2.146E 02	2.151E 02	2.155E 02	2.158E 02	2.160E 02	2.670E 03
0.0	3.037E 02	3.046E 02	3.054E 02	3.061E 02	3.068E 02	3.073E 02	3.075E 02	3.076E 02	3.812E 03

8.187 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000 0.0	ANGLE 2 MU=-0.9894 0.0	ANGLE 3 MU=-0.9446 0.0	ANGLE 4 MU=-0.8656 0.0	ANGLE 5 MU=-0.7550 0.0	ANGLE 6 MU=-0.6179 0.0	ANGLE 7 MU=-0.4580 0.0	ANGLE 8 MU=-0.2816 0.0	ANGLE 9 MU=-0.0950 0.0
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	-8.042E-04	-6.517E-04	-2.467E-04	9.521E-05	1.888E-04	2.113E-04	1.342E-05	5.335E-05	3.040E-04
6.36E 00---8.19E 00	3.636E-03	3.560E-03	3.04E-03	2.983E-03	2.847E-03	3.62E-03	3.680E-03	4.618E-03	5.727E-03
4.97E 00---6.36E 00	3.034E-03	3.024E-03	2.994E-03	2.967E-03	2.991E-03	3.100E-03	3.314E-03	3.633E-03	4.051E-03
4.07E 00---4.97E 00	2.645E-03	2.653E-03	2.681E-03	2.736E-03	2.824E-03	2.948E-03	3.117E-03	3.341E-03	3.637E-03
3.01E 00---4.07E 00	2.469E-03	2.473E-03	2.490E-03	2.525E-03	2.582E-03	2.667E-03	2.790E-03	2.963E-03	3.204E-03
2.46E 00---3.01E 00	3.857E-03	3.864E-03	3.893E-03	3.934E-03	4.048E-03	4.188E-03	4.389E-03	4.670E-03	5.061E-03
2.35E 00---2.46E 00	5.190E-03	5.198E-03	5.232E-03	5.304E-03	5.426E-03	5.615E-03	5.895E-03	6.295E-03	6.855E-03
1.83E 00---2.35E 00	4.834E-03	4.849E-03	4.905E-03	5.018E-03	5.195E-03	5.450E-03	5.801E-03	6.275E-03	6.903E-03
1.11E 00---1.83E 00	6.100E-03	6.117E-03	6.185E-03	6.321E-03	6.526E-03	6.812E-03	7.193E-03	7.688E-03	8.328E-03
5.50E 01---1.11E 00	9.611E-03	9.631E-03	9.713E-03	9.874E-03	1.011E-02	1.044E-02	1.088E-02	1.143E-02	1.212E-02
1.11E 01---5.50E 01	1.431E-02	1.433E-02	1.442E-02	1.459E-02	1.483E-02	1.516E-02	1.566E-02	1.604E-02	1.660E-02
3.35E 02---1.11E 01	8.514E-02	8.520E-02	8.547E-02	8.598E-02	8.671E-02	8.764E-02	8.876E-02	9.007E-02	9.155E-02
5.83E 04---3.35E 02	7.101E-02	7.105E-02	7.121E-02	7.151E-02	7.193E-02	7.247E-02	7.312E-02	7.386E-02	7.467E-02
1.01E 04---5.83E 04	4.144E 00	4.146E 00	4.154E 00	4.169E 00	4.190E 00	4.217E 00	4.248E 00	4.284E 00	4.322E 00
2.90E 05---1.01E 04	1.756E 01	1.757E 01	1.763E 01	1.766E 01	1.773E 01	1.783E 01	1.795E 01	1.808E 01	1.823E 01
1.07E 05---2.90E 05	5.052E 01	5.054E 01	5.062E 01	5.078E 01	5.099E 01	5.125E 01	5.157E 01	5.193E 01	5.231E 01
3.06E 06---1.07E 05	1.332E 02	1.332E 02	1.334E 02	1.338E 02	1.343E 02	1.350E 02	1.357E 02	1.366E 02	1.375E 02
1.12E 06---3.06E 06	3.525E 02	3.525E 02	3.530E 02	3.540E 02	3.552E 02	3.569E 02	3.588E 02	3.609E 02	3.632E 02
4.14E 07---1.12E 06	7.630E 02	7.633E 02	7.643E 02	7.662E 02	7.688E 02	7.721E 02	7.760E 02	7.803E 02	7.850E 02
0.0	1.096E 03	1.097E 03	1.098E 03	1.101E 03	1.105E 03	1.109E 03	1.114E 03	1.119E 03	1.125E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950 0.0	ANGLE 11 MU= 0.2816 0.0	ANGLE 12 MU= 0.4580 0.0	ANGLE 13 MU= 0.6179 0.0	ANGLE 14 MU= 0.7550 0.0	ANGLE 15 MU= 0.8656 0.0	ANGLE 16 MU= 0.9446 0.0	ANGLE 17 MU= 0.9894 0.0	SCALAR FLUX 0.0
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	5.601E-04	1.704E-03	1.813E-03	3.669E-03	8.249E-03	3.404E-02	1.591E-01	1.422E 00	3.403E-01
6.36E 00---8.19E 00	5.582E-03	9.054E-03	9.131E-03	7.880E-02	1.801E-02	2.305E-02	4.059E-02	8.269E-02	1.214E-01
4.97E 00---6.36E 00	6.116E-03	4.277E-03	6.419E-03	7.833E-03	8.763E-03	1.303E-02	1.736E-02	2.791E-02	7.382E-02
4.07E 00---4.97E 00	5.257E-03	3.793E-03	5.358E-03	6.544E-03	7.165E-03	1.031E-02	1.346E-02	2.150E-02	6.276E-02
3.01E 00---4.07E 00	3.008E-03	4.455E-03	4.223E-03	5.979E-03	6.623E-03	9.477E-03	1.241E-02	2.090E-02	5.577E-02
2.46E 00---3.01E 00	4.817E-03	7.066E-03	6.930E-03	9.544E-03	1.082E-02	1.555E-02	2.118E-02	3.643E-02	9.004E-02
2.35E 00---2.46E 00	1.001E-02	7.264E-03	1.045E-02	1.288E-02	1.433E-02	2.094E-02	2.791E-02	4.642E-02	1.233E-01
1.83E 00---2.35E 00	6.585E-03	9.887E-03	9.406E-03	1.337E-02	1.480E-02	2.125E-02	2.847E-02	4.875E-02	1.220E-01
1.11E 00---1.83E 00	1.157E-02	8.816E-03	1.173E-02	1.395E-02	1.494E-02	2.011E-02	2.473E-02	3.617E-02	1.342E-01
5.50E 01---1.11E 00	1.423E-02	1.330E-02	1.378E-02	1.729E-02	1.860E-02	2.216E-02	2.539E-02	3.183E-02	1.763E-01
1.11E 01---5.50E 01	1.362E-02	1.989E-02	1.978E-02	1.895E-02	2.213E-02	2.119E-02	2.395E-02	2.844E-02	2.178E-01
3.35E 02---1.11E 01	9.607E-02	9.451E-02	9.493E-02	1.003E-01	9.818E-02	1.021E-01	1.033E-01	1.033E-01	1.170E 00
5.83E 04---3.35E 02	7.552E-02	7.639E-02	7.728E-02	7.812E-02	7.887E-02	7.952E-02	8.000E-02	8.029E-02	9.459E-01
1.01E 04---5.83E 04	4.363E 00	4.404E 00	4.445E 00	4.483E 00	4.516E 00	4.544E 00	4.565E 00	4.577E 00	5.465E 01
2.90E 05---1.01E 04	1.838E 01	1.853E 01	1.868E 01	1.882E 01	1.894E 01	1.903E 01	1.911E 01	1.915E 01	2.302E 02
1.07E 05---2.90E 05	5.271E 01	5.311E 01	5.350E 01	5.386E 01	5.418E 01	5.444E 01	5.463E 01	5.473E 01	6.604E 02
3.06E 06---1.07E 05	1.385E 02	1.394E 02	1.404E 02	1.412E 02	1.420E 02	1.426E 02	1.430E 02	1.433E 02	1.735E 03
1.12E 06---3.06E 06	3.656E 02	3.679E 02	3.702E 02	3.723E 02	3.742E 02	3.757E 02	3.767E 02	3.774E 02	4.581E 03
4.14E 07---1.12E 06	7.998E 02	7.947E 02	7.993E 02	8.036E 02	8.073E 02	8.103E 02	8.125E 02	8.137E 02	9.899E 03
0.0	1.131E 03	1.137E 03	1.143E 03	1.149E 03	1.153E 03	1.157E 03	1.159E 03	1.160E 03	1.418E 04



## 8.187 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-7.457E-04	-6.037E-04	-2.139E-04	6.063E-05	1.900E-04	2.814E-04	7.546E-06	5.453E-05	3.247E-04
6.36E 00--8.19E 00	3.399E-03	3.326E-03	3.080E-03	2.779E-03	2.671E-03	2.917E-03	3.563E-03	4.523E-03	5.642E-03
4.97E 00--6.36E 00	3.269E-03	3.227E-03	3.227E-03	3.206E-03	3.249E-03	3.398E-03	3.670E-03	4.062E-03	4.563E-03
4.07E 00--4.97E 00	3.109E-03	3.117E-03	3.150E-03	3.219E-03	3.324E-03	3.476E-03	3.681E-03	3.952E-03	4.306E-03
3.01E 00--4.07E 00	2.916E-03	2.920E-03	2.937E-03	2.973E-03	3.034E-03	3.127E-03	3.265E-03	3.462E-03	3.740E-03
2.46E 00--3.01E 00	4.517E-03	4.525E-03	4.559E-03	4.627E-03	4.738E-03	4.899E-03	5.134E-03	5.469E-03	5.940E-03
2.35E 00--2.46E 00	6.159E-03	6.168E-03	6.209E-03	6.298E-03	6.448E-03	6.682E-03	7.031E-03	7.534E-03	8.239E-03
1.83E 00--2.35E 00	5.702E-03	5.718E-03	5.784E-03	5.919E-03	6.129E-03	6.434E-03	6.856E-03	7.442E-03	8.180E-03
1.11E 00--1.83E 00	7.421E-03	7.442E-03	7.527E-03	7.696E-03	7.950E-03	8.304E-03	8.775E-03	9.386E-03	1.017E-02
5.50E-01--1.11E 00	1.258E-02	1.261E-02	1.272E-02	1.295E-02	1.329E-02	1.375E-02	1.435E-02	1.511E-02	1.607E-02
3.35E-02--1.11E 01	2.043E-02	2.046E-02	2.060E-02	2.086E-02	2.124E-02	2.174E-02	2.236E-02	2.311E-02	2.401E-02
5.83E-04--3.35E-02	1.301E-01	1.302E-01	1.307E-01	1.316E-01	1.329E-01	1.345E-01	1.364E-01	1.387E-01	1.413E-01
1.01E-04--5.83E-04	1.110E-01	1.111E-01	1.114E-01	1.120E-01	1.127E-01	1.137E-01	1.149E-01	1.163E-01	1.178E-01
2.90E-05--1.01E-04	6.579E 00	6.582E 00	6.598E 00	6.626E 00	6.667E 00	6.718E 00	6.778E 00	6.847E 00	6.923E 00
1.07E-05--2.90E-05	2.812E 01	2.814E 01	2.823E 01	2.831E 01	2.846E 01	2.866E 01	2.889E 01	2.916E 01	2.944E 01
3.06E-06--1.07E-05	8.137E 01	8.141E 01	8.158E 01	8.188E 01	8.230E 01	8.284E 01	8.348E 01	8.420E 01	8.498E 01
1.12E-06--3.06E-06	2.159E 02	2.159E 02	2.163E 02	2.170E 02	2.181E 02	2.194E 02	2.210E 02	2.228E 02	2.247E 02
4.14E-07--1.12E-06	5.735E 02	5.737E 02	5.747E 02	5.766E 02	5.795E 02	5.826E 02	5.865E 02	5.910E 02	5.957E 02
0.0	1.246E 03	1.247E 03	1.249E 03	1.253E 03	1.258E 03	1.265E 03	1.273E 03	1.282E 03	1.292E 03
---	1.797E 03	1.798E 03	1.801E 03	1.807E 03	1.814E 03	1.823E 03	1.834E 03	1.845E 03	1.857E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	1.034E-03	1.383E-03	2.239E-03	3.281E-03	7.928E-03	2.455E-02	1.146E-01	1.189E 00	2.775E-01
6.36E 00--8.19E 00	7.492E-03	7.414E-03	1.013E-02	1.160E-02	1.708E-02	2.585E-02	4.364E-02	9.281E-02	1.248E-01
4.97E 00--6.36E 00	4.359E-03	6.694E-03	6.422E-03	9.188E-03	1.058E-02	1.520E-02	2.112E-02	3.446E-02	8.331E-02
4.07E 00--4.97E 00	4.108E-03	5.985E-03	5.752E-03	7.916E-03	8.881E-03	1.224E-02	1.637E-02	2.594E-02	7.354E-02
3.01E 00--4.07E 00	4.421E-03	4.421E-03	5.643E-03	6.323E-03	8.253E-03	1.046E-02	1.486E-02	2.346E-02	6.545E-02
2.46E 00--3.01E 00	7.013E-03	7.137E-03	9.122E-03	1.035E-02	1.362E-02	1.763E-02	2.586E-02	4.331E-02	1.071E-01
2.35E 00--2.46E 00	7.973E-03	1.166E-02	1.143E-02	1.588E-02	1.812E-02	2.532E-02	3.490E-02	5.823E-02	1.473E-01
1.83E 00--2.35E 00	9.803E-03	9.953E-03	1.275E-02	1.430E-02	1.860E-02	2.356E-02	3.380E-02	5.542E-02	1.446E-01
1.11E 00--1.83E 00	9.780E-03	1.358E-02	1.310E-02	1.705E-02	1.843E-02	2.370E-02	2.920E-02	4.148E-02	1.593E-01
5.50E-01--1.11E 00	2.728E-02	1.933E-02	2.502E-02	2.318E-02	2.514E-02	2.927E-02	3.355E-02	4.103E-02	2.322E-01
3.35E-02--1.11E 01	1.420E-01	1.483E-01	1.497E-01	1.536E-01	1.554E-01	1.584E-01	1.601E-01	1.615E-01	1.630E 00
5.83E-04--3.35E-02	1.194E-01	1.211E-01	1.227E-01	1.243E-01	1.257E-01	1.269E-01	1.278E-01	1.283E-01	1.495E 00
1.01E-04--5.83E-04	7.002E 00	7.084E 00	7.164E 00	7.239E 00	7.306E 00	7.361E 00	7.403E 00	7.426E 00	8.767E 00
2.90E-05--1.01E-04	3.005E 01	3.005E 01	3.035E 01	3.063E 01	3.088E 01	3.108E 01	3.123E 01	3.132E 01	3.142E 01
1.07E-05--2.90E-05	8.580E 01	8.663E 01	8.743E 01	8.819E 01	8.885E 01	8.939E 01	8.979E 01	9.001E 01	1.074E 02
3.06E-06--1.07E-05	2.267E 02	2.287E 02	2.307E 02	2.325E 02	2.341E 02	2.354E 02	2.364E 02	2.369E 02	2.839E 02
1.12E-06--3.06E-06	6.007E 02	6.058E 02	6.106E 02	6.151E 02	6.190E 02	6.223E 02	6.246E 02	6.259E 02	7.524E 02
4.14E-07--1.12E-06	1.302E 03	1.312E 03	1.322E 03	1.332E 03	1.340E 03	1.346E 03	1.351E 03	1.354E 03	1.631E 04
0.0	1.870E 03	1.883E 03	1.896E 03	1.908E 03	1.918E 03	1.926E 03	1.931E 03	1.934E 03	2.344E 04

4 PI R\*2 FLUENCE AT 300.0 METERS 8.187 TO 10.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.2E 01--1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-4.425E-04	-4.425E-04	-1.412E-04	3.36E-05	2.504E-04	1.946E-04	-1.004E-05	4.067E-05	3.099E-04
6.36E 00--8.19E 00	2.596E-03	2.596E-03	2.410E-03	2.193E-03	2.148E-03	2.401E-03	3.827E-03	3.827E-03	4.789E-03
4.97E 00--6.36E 00	3.137E-03	3.128E-03	3.102E-03	3.095E-03	3.148E-03	3.355E-03	3.678E-03	4.125E-03	4.681E-03
3.01E 00--4.97E 00	3.392E-03	3.401E-03	3.441E-03	3.522E-03	3.646E-03	3.823E-03	4.062E-03	4.378E-03	4.793E-03
2.06E 00--3.01E 00	3.246E-03	3.249E-03	3.264E-03	3.297E-03	3.358E-03	3.451E-03	3.597E-03	3.812E-03	4.121E-03
1.46E 00--2.06E 00	4.971E-03	4.980E-03	5.017E-03	5.093E-03	5.215E-03	5.399E-03	5.669E-03	6.058E-03	6.609E-03
1.03E 00--1.46E 00	6.892E-03	6.904E-03	6.956E-03	7.068E-03	7.257E-03	7.552E-03	7.951E-03	8.463E-03	9.121E-03
8.68E 00--1.03E 00	8.709E-03	8.709E-03	8.814E-03	9.018E-03	9.327E-03	9.756E-03	1.033E-02	1.107E-02	1.201E-02
6.43E 00--8.68E 00	1.627E-02	1.627E-02	1.644E-02	1.676E-02	1.723E-02	1.789E-02	1.874E-02	1.983E-02	2.119E-02
4.89E 00--6.43E 00	2.988E-02	2.988E-02	3.011E-02	3.053E-02	3.114E-02	3.195E-02	3.295E-02	3.417E-02	3.559E-02
3.35E 00--4.89E 00	2.105E-01	2.105E-01	2.114E-01	2.131E-01	2.159E-01	2.186E-01	2.244E-01	2.268E-01	2.317E-01
2.06E 00--3.35E 00	1.858E-01	1.858E-01	1.864E-01	1.875E-01	1.891E-01	1.912E-01	1.936E-01	1.964E-01	1.995E-01
1.03E 00--2.06E 00	1.128E 01	1.128E 01	1.132E 01	1.138E 01	1.146E 01	1.158E 01	1.171E 01	1.186E 01	1.202E 01
8.89E 00--1.03E 00	4.897E 01	4.897E 01	4.910E 01	4.935E 01	4.970E 01	5.014E 01	5.067E 01	5.127E 01	5.193E 01
6.84E 00--8.89E 00	1.432E 02	1.432E 02	1.436E 02	1.443E 02	1.453E 02	1.465E 02	1.480E 02	1.497E 02	1.515E 02
5.83E 00--6.84E 00	3.843E 02	3.843E 02	3.852E 02	3.873E 02	3.895E 02	3.926E 02	3.964E 02	4.006E 02	4.053E 02
4.87E 00--5.83E 00	1.030E 03	1.030E 03	1.032E 03	1.037E 03	1.043E 03	1.051E 03	1.061E 03	1.072E 03	1.083E 03
3.92E 00--4.87E 00	2.259E 03	2.259E 03	2.259E 03	2.269E 03	2.282E 03	2.299E 03	2.319E 03	2.342E 03	2.366E 03
3.07E 00--3.92E 00	3.277E 03	3.277E 03	3.284E 03	3.298E 03	3.316E 03	3.339E 03	3.364E 03	3.393E 03	3.424E 03
2.12E 00--3.07E 00	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	MU=1.0000
1.00E 00--2.12E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	7.927E-04	1.415E-03	1.890E-03	3.087E-03	7.049E-03	1.996E-02	7.202E-02	7.711E-01	1.853E-01
6.36E 00--8.19E 00	5.611E-03	6.963E-03	8.272E-03	1.056E-02	1.457E-02	2.318E-02	4.186E-02	9.317E-02	1.106E-01
4.97E 00--6.36E 00	5.585E-03	6.055E-03	7.218E-03	9.035E-03	1.208E-02	1.634E-02	2.411E-02	3.929E-02	8.898E-02
3.01E 00--4.97E 00	5.510E-03	5.938E-03	7.218E-03	8.439E-03	1.071E-02	1.371E-02	1.993E-02	2.882E-02	8.340E-02
2.06E 00--3.01E 00	4.472E-03	5.231E-03	5.966E-03	7.269E-03	8.901E-03	1.151E-02	1.558E-02	2.372E-02	7.126E-02
1.46E 00--2.06E 00	7.284E-03	8.556E-03	9.918E-03	1.222E-02	1.526E-02	2.026E-02	2.888E-02	4.836E-02	1.200E-01
1.03E 00--1.46E 00	1.105E-02	1.220E-02	1.502E-02	1.790E-02	2.297E-02	2.991E-02	4.262E-02	6.995E-02	1.750E-01
8.89E 00--1.03E 00	1.035E-02	1.218E-02	1.396E-02	1.691E-02	2.057E-02	2.641E-02	3.605E-02	5.748E-02	1.619E-01
6.84E 00--8.89E 00	1.361E-02	1.439E-02	1.686E-02	1.881E-02	2.234E-02	2.623E-02	3.249E-02	4.262E-02	1.862E-01
5.83E 00--6.84E 00	2.307E-02	2.476E-02	2.755E-02	3.032E-02	3.415E-02	3.839E-02	4.397E-02	5.127E-02	3.067E-01
4.87E 00--5.83E 00	3.641E-02	3.965E-02	4.366E-02	4.836E-02	5.295E-02	5.809E-02	6.395E-02	7.068E-02	4.718E-01
3.92E 00--4.87E 00	2.381E-01	2.420E-01	2.489E-01	2.537E-01	2.595E-01	2.636E-01	2.675E-01	2.694E-01	2.968E-01
3.07E 00--3.92E 00	2.028E-01	2.063E-01	2.097E-01	2.130E-01	2.159E-01	2.184E-01	2.202E-01	2.213E-01	2.538E-01
2.12E 00--3.07E 00	1.220E 01	1.233E 01	1.256E 01	1.273E 01	1.288E 01	1.300E 01	1.310E 01	1.315E 01	1.526E 01
1.00E 00--2.12E 00	5.262E 01	5.333E 01	5.402E 01	5.468E 01	5.526E 01	5.574E 01	5.610E 01	5.630E 01	6.584E 01
8.19E 00--1.00E 01	1.535E 02	1.554E 02	1.574E 02	1.592E 02	1.608E 02	1.621E 02	1.631E 02	1.636E 02	1.920E 02
6.36E 00--8.19E 00	4.101E 02	4.151E 02	4.199E 02	4.244E 02	4.284E 02	4.317E 02	4.341E 02	4.355E 02	5.133E 02
4.97E 00--6.36E 00	1.096E 03	1.108E 03	1.120E 03	1.132E 03	1.142E 03	1.150E 03	1.156E 03	1.160E 03	1.371E 03
3.01E 00--4.97E 00	2.392E 03	2.418E 03	2.443E 03	2.467E 03	2.488E 03	2.505E 03	2.517E 03	2.524E 03	2.994E 03
2.06E 00--3.01E 00	3.457E 03	3.451E 03	3.524E 03	3.555E 03	3.582E 03	3.603E 03	3.617E 03	3.625E 03	4.329E 03
1.46E 00--2.06E 00	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	MU=1.0000
8.89E 00--1.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.84E 00--8.89E 00	7.927E-04	1.415E-03	1.890E-03	3.087E-03	7.049E-03	1.996E-02	7.202E-02	7.711E-01	1.853E-01
5.83E 00--6.84E 00	5.611E-03	6.963E-03	8.272E-03	1.056E-02	1.457E-02	2.318E-02	4.186E-02	9.317E-02	1.106E-01
4.87E 00--5.83E 00	5.585E-03	6.055E-03	7.218E-03	9.035E-03	1.208E-02	1.634E-02	2.411E-02	3.929E-02	8.898E-02
3.92E 00--4.87E 00	5.510E-03	5.938E-03	7.218E-03	8.439E-03	1.071E-02	1.371E-02	1.993E-02	2.882E-02	8.340E-02
3.01E 00--3.92E 00	4.472E-03	5.231E-03	5.966E-03	7.269E-03	8.901E-03	1.151E-02	1.558E-02	2.372E-02	7.126E-02
2.06E 00--3.01E 00	7.284E-03	8.556E-03	9.918E-03	1.222E-02	1.526E-02	2.026E-02	2.888E-02	4.836E-02	1.200E-01
1.46E 00--2.06E 00	1.105E-02	1.220E-02	1.502E-02	1.790E-02	2.297E-02	2.991E-02	4.262E-02	6.995E-02	1.750E-01
8.89E 00--1.46E 00	1.035E-02	1.218E-02	1.396E-02	1.691E-02	2.057E-02	2.641E-02	3.605E-02	5.748E-02	1.619E-01
6.84E 00--8.89E 00	1.361E-02	1.439E-02	1.686E-02	1.881E-02	2.234E-02	2.623E-02	3.249E-02	4.262E-02	1.862E-01
5.83E 00--6.84E 00	2.307E-02	2.476E-02	2.755E-02	3.032E-02	3.415E-02	3.839E-02	4.397E-02	5.127E-02	3.067E-01
4.87E 00--5.83E 00	3.641E-02	3.965E-02	4.366E-02	4.836E-02	5.295E-02	5.809E-02	6.395E-02	7.068E-02	4.718E-01
3.92E 00--4.87E 00	2.381E-01	2.420E-01	2.489E-01	2.537E-01	2.595E-01	2.636E-01	2.675E-01	2.694E-01	2.968E-01
3.07E 00--3.92E 00	2.028E-01	2.063E-01	2.097E-01	2.130E-01	2.159E-01	2.184E-01	2.202E-01	2.213E-01	2.538E-01
2.12E 00--3.07E 00	1.220E 01	1.233E 01	1.256E 01	1.273E 01	1.288E 01	1.300E 01	1.310E 01	1.315E 01	1.526E 01
1.00E 00--2.12E 00	5.262E 01	5.333E 01	5.402E 01	5.468E 01	5.526E 01	5.574E 01	5.610E 01	5.630E 01	6.584E 01
8.19E 00--1.00E 01	1.535E 02	1.554E 02	1.574E 02	1.592E 02	1.608E 02	1.621E 02	1.631E 02	1.636E 02	1.920E 02
6.36E 00--8.19E 00	4.101E 02	4.151E 02	4.199E 02	4.244E 02	4.284E 02	4.317E 02	4.341E 02	4.355E 02	5.133E 02
4.97E 00--6.36E 00	1.096E 03	1.108E 03	1.120E 03	1.132E 03	1.142E 03	1.150E 03	1.156E 03	1.160E 03	1.371E 03
3.01E 00--4.97E 00	2.392E 03	2.418E 03	2.443E 03	2.467E 03	2.488E 03	2.505E 03	2.517E 03	2.524E 03	2.994E 03
2.06E 00--3.01E 00	3.457E 03	3.451E 03	3.524E 03	3.555E 03	3.582E 03	3.603E 03	3.617E 03	3.625E 03	4.329E 03

## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=-0.9446	ANGLE 3 MU=-0.8656	ANGLE 4 MU=-0.7550	ANGLE 5 MU=-0.6179	ANGLE 6 MU=-0.4580	ANGLE 7 MU=-0.2816	ANGLE 8 MU=-0.0950	ANGLE 9 MU=0.0
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-3.704E-04	-2.985E-04	-8.746E-05	4.350E-05	1.899E-04	1.323E-04	-9.320E-06	4.072E-05	2.720E-04
6.36E 00--8.19E 00	1.930E-03	1.892E-03	1.765E-03	1.625E-03	1.520E-03	1.432E-03	2.305E-03	2.968E-03	3.716E-03
4.97E 00--6.36E 00	2.652E-03	2.645E-03	2.625E-03	2.631E-03	2.710E-03	2.900E-03	3.210E-03	3.630E-03	4.145E-03
4.07E 00--4.97E 00	3.144E-03	3.153E-03	3.193E-03	3.273E-03	3.395E-03	3.567E-03	3.799E-03	4.105E-03	4.508E-03
3.01E 00--4.07E 00	3.074E-03	3.076E-03	3.088E-03	3.115E-03	3.166E-03	3.252E-03	3.388E-03	3.592E-03	3.889E-03
2.46E 00--3.01E 00	4.681E-03	4.689E-03	4.735E-03	4.799E-03	4.919E-03	5.101E-03	5.370E-03	5.760E-03	6.317E-03
2.35E 00--2.46E 00	6.577E-03	6.577E-03	6.634E-03	6.755E-03	6.958E-03	7.211E-03	7.536E-03	8.040E-03	9.343E-03
1.81E 00--2.35E 00	8.273E-03	8.273E-03	8.333E-03	8.514E-03	8.763E-03	9.125E-03	9.625E-03	1.028E-02	1.102E-02
1.11E 00--1.81E 00	6.605E-03	6.605E-03	6.737E-03	6.946E-03	7.259E-03	7.695E-03	8.275E-03	9.049E-03	1.027E-02
5.50E 01--1.11E 00	1.715E-02	1.719E-02	1.738E-02	1.774E-02	1.828E-02	1.902E-02	1.999E-02	2.121E-02	2.275E-02
3.35E 01--5.50E 01	3.440E-02	3.447E-02	3.475E-02	3.527E-02	3.602E-02	3.702E-02	3.826E-02	3.977E-02	4.153E-02
3.35E 01--1.11E 01	2.608E-01	2.611E-01	2.624E-01	2.647E-01	2.680E-01	2.723E-01	2.774E-01	2.835E-01	2.902E-01
5.83E 04--3.35E 02	2.359E-01	2.361E-01	2.370E-01	2.385E-01	2.409E-01	2.438E-01	2.473E-01	2.514E-01	2.559E-01
1.01E 04--5.83E 04	1.460E 01	1.461E 01	1.466E 01	1.475E 01	1.488E 01	1.505E 01	1.525E 01	1.547E 01	1.572E 01
2.90E 05--1.01E 04	6.415E 01	6.420E 01	6.440E 01	6.478E 01	6.531E 01	6.598E 01	6.679E 01	6.771E 01	6.872E 01
1.07E 05--2.90E 05	1.893E 02	1.895E 02	1.901E 02	1.911E 02	1.926E 02	1.946E 02	1.969E 02	1.995E 02	2.024E 02
3.06E 06--1.07E 05	5.132E 02	5.135E 02	5.151E 02	5.179E 02	5.218E 02	5.268E 02	5.327E 02	5.395E 02	5.470E 02
1.12E 06--3.06E 06	1.386E 03	1.387E 03	1.391E 03	1.398E 03	1.408E 03	1.421E 03	1.436E 03	1.454E 03	1.473E 03
4.14E 07--1.12E 06	3.054E 03	3.056E 03	3.064E 03	3.080E 03	3.101E 03	3.129E 03	3.161E 03	3.199E 03	3.239E 03
0.0	4.472E 03	4.475E 03	4.510E 03	4.510E 03	4.539E 03	4.576E 03	4.618E 03	4.666E 03	4.718E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	6.936E-04	1.130E-03	1.568E-03	2.536E-03	5.862E-03	1.615E-02	5.126E-02	4.852E-01	1.238E-01
6.36E 00--8.19E 00	4.495E-03	5.252E-03	6.421E-03	8.289E-03	1.188E-02	1.503E-02	3.491E-02	7.993E-02	8.926E-02
4.97E 00--6.36E 00	4.749E-03	5.587E-03	6.655E-03	8.436E-03	1.110E-02	1.542E-02	2.274E-02	3.721E-02	8.057E-02
4.07E 00--4.97E 00	5.028E-03	5.788E-03	6.781E-03	8.244E-03	1.031E-02	1.339E-02	1.812E-02	2.697E-02	7.924E-02
3.01E 00--4.07E 00	4.321E-03	4.897E-03	5.730E-03	6.880E-03	8.498E-03	1.078E-02	1.425E-02	2.053E-02	6.699E-02
2.46E 00--3.01E 00	7.112E-03	8.198E-03	9.757E-03	1.193E-02	1.510E-02	1.987E-02	2.796E-02	4.549E-02	1.159E-01
2.35E 00--2.46E 00	1.062E-02	1.248E-02	1.494E-02	1.848E-02	2.346E-02	3.103E-02	4.359E-02	7.062E-02	1.752E-01
1.83E 00--2.35E 00	1.037E-02	1.187E-02	1.391E-02	1.657E-02	2.024E-02	2.544E-02	3.375E-02	5.107E-02	1.573E-01
1.11E 00--1.83E 00	1.312E-02	1.471E-02	1.652E-02	1.892E-02	2.182E-02	2.562E-02	3.058E-02	3.812E-02	1.831E-01
5.50E 01--1.11E 00	2.461E-02	2.696E-02	2.970E-02	3.304E-02	3.693E-02	4.152E-02	4.681E-02	5.312E-02	3.292E-01
1.11E 01--5.50E 01	4.370E-02	4.572E-02	4.837E-02	5.088E-02	5.368E-02	5.632E-02	5.860E-02	6.029E-02	5.519E-01
3.35E 02--1.11E 01	2.973E-01	3.055E-01	3.132E-01	3.211E-01	3.281E-01	3.344E-01	3.391E-01	3.419E-01	3.724E 00
5.83E 04--3.35E 02	2.606E-01	2.656E-01	2.705E-01	2.752E-01	2.795E-01	2.831E-01	2.857E-01	2.873E-01	3.259E 00
1.01E 04--5.83E 04	1.598E 01	1.626E 01	1.653E 01	1.678E 01	1.701E 01	1.720E 01	1.742E 01	1.754E 01	1.999E 02
6.979E 01	6.979E 01	7.089E 01	7.197E 01	7.299E 01	7.390E 01	7.466E 01	7.521E 01	7.554E 01	8.728E 02
2.054E 02	2.054E 02	2.085E 02	2.116E 02	2.145E 02	2.171E 02	2.192E 02	2.208E 02	2.217E 02	2.569E 03
1.07E 05--2.90E 05	5.548E 02	5.628E 02	5.706E 02	5.780E 02	5.845E 02	5.899E 02	5.939E 02	5.962E 02	6.939E 03
3.06E 06--1.07E 05	1.493E 03	1.514E 03	1.534E 03	1.553E 03	1.570E 03	1.584E 03	1.599E 03	1.599E 03	1.868E 04
4.14E 07--1.12E 06	3.282E 03	3.325E 03	3.368E 03	3.408E 03	3.443E 03	3.472E 03	3.493E 03	3.505E 03	4.106E 04
0.0	4.774E 03	4.831E 03	4.887E 03	4.940E 03	4.985E 03	5.021E 03	5.047E 03	5.061E 03	5.976E 04

4 PI R\*2 FLUENCE AT 500.0 METERS

8.187 TO 10.00 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0989	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0617	ANGLE 7 MU=0.0458	ANGLE 8 MU=0.0281	ANGLE 9 MU=0.0095
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-2.415E-04	-1.942E-04	-5.280E-05	3.922E-05	1.341E-04	8.634E-05	-3.878E-06	4.026E-05	2.231E-04
6.36E 00--8.19E 00	1.356E-03	1.331E-03	1.279E-03	1.164E-03	1.177E-03	1.352E-03	1.705E-03	2.192E-03	2.744E-03
4.97E 00--6.36E 00	2.095E-03	2.050E-03	2.079E-03	2.089E-03	2.165E-03	2.333E-03	2.601E-03	2.959E-03	3.392E-03
3.07E 00--4.97E 00	2.667E-03	2.676E-03	2.711E-03	2.782E-03	2.890E-03	3.042E-03	3.246E-03	3.515E-03	3.869E-03
2.46E 00--3.07E 00	2.658E-03	2.660E-03	2.688E-03	2.690E-03	2.731E-03	2.803E-03	2.920E-03	3.098E-03	3.359E-03
2.35E 00--2.46E 00	4.036E-03	4.044E-03	4.076E-03	4.142E-03	4.250E-03	4.415E-03	4.660E-03	5.017E-03	5.529E-03
1.83E 00--2.35E 00	5.711E-03	5.724E-03	5.780E-03	5.898E-03	6.094E-03	6.394E-03	6.831E-03	7.450E-03	8.269E-03
1.11E 00--1.83E 00	7.768E-03	7.792E-03	7.890E-03	8.082E-03	8.370E-03	8.772E-03	9.304E-03	9.992E-03	1.086E-02
5.50E 01--1.11E 00	1.621E-02	1.626E-02	1.645E-02	1.681E-02	1.734E-02	1.807E-02	1.903E-02	2.025E-02	2.177E-02
3.35E 02--5.50E 01	3.475E-02	3.482E-02	3.511E-02	3.565E-02	3.646E-02	3.752E-02	3.894E-02	4.043E-02	4.300E-02
1.11E 01--3.35E 02	2.784E-01	2.788E-01	2.802E-01	2.829E-01	2.866E-01	2.915E-01	2.974E-01	3.043E-01	3.121E-01
5.83E 04--3.35E 02	2.564E-01	2.567E-01	2.577E-01	2.596E-01	2.623E-01	2.657E-01	2.699E-01	2.746E-01	2.799E-01
1.01E 04--5.83E 04	1.611E 01	1.612E 01	1.618E 01	1.629E 01	1.644E 01	1.664E 01	1.688E 01	1.715E 01	1.746E 01
2.90E 05--1.01E 04	7.143E 01	7.149E 01	7.175E 01	7.221E 01	7.285E 01	7.368E 01	7.461E 01	7.581E 01	7.705E 01
1.07E 05--2.90E 05	2.124E 02	2.125E 02	2.133E 02	2.146E 02	2.165E 02	2.189E 02	2.217E 02	2.250E 02	2.286E 02
3.04E 06--1.07E 05	5.805E 02	5.809E 02	5.829E 02	5.864E 02	5.913E 02	5.976E 02	6.052E 02	6.138E 02	6.232E 02
1.12E 06--3.04E 06	1.577E 03	1.579E 03	1.584E 03	1.593E 03	1.606E 03	1.623E 03	1.642E 03	1.665E 03	1.690E 03
4.14E 07--1.12E 06	3.496F 03	3.499E 03	3.510E 03	3.530E 03	3.558E 03	3.593E 03	3.636E 03	3.684E 03	3.737E 03
0.0	5.153E 03	5.157E 03	5.173E 03	5.201E 03	5.240E 03	5.288E 03	5.343E 03	5.406E 03	5.475E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.0281	ANGLE 12 MU=0.0458	ANGLE 13 MU=0.0617	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.0856	ANGLE 16 MU=0.0946	ANGLE 17 MU=0.0994	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	5.379E-04	8.673E-04	1.204E-03	1.985E-03	4.594E-03	1.246E-02	3.703E-02	3.027E-01	8.241E-02
6.36E 00--8.19E 00	3.309E-03	3.929E-03	4.786E-03	6.286E-03	9.163E-03	1.489E-02	2.744E-02	6.313E-02	6.822E-02
4.97E 00--6.36E 00	3.917E-03	4.598E-03	5.578E-03	7.075E-03	9.442E-03	1.323E-02	1.959E-02	3.182E-02	6.742E-02
3.07E 00--4.97E 00	4.345E-03	4.994E-03	5.911E-03	7.214E-03	9.089E-03	1.182E-02	1.593E-02	2.297E-02	6.869E-02
2.46E 00--3.07E 00	3.733E-03	4.260E-03	4.922E-03	6.004E-03	7.392E-03	9.305E-03	1.203E-02	1.651E-02	5.769E-02
2.35E 00--2.46E 00	6.253E-03	7.272E-03	8.702E-03	1.072E-02	1.362E-02	1.709E-02	2.498E-02	3.927E-02	1.025E-01
1.83E 00--2.35E 00	9.607E-03	1.133E-02	1.373E-02	1.711E-02	2.193E-02	2.709E-02	4.077E-02	6.480E-02	1.600E-01
1.11E 00--1.83E 00	1.196E-02	1.331E-02	1.503E-02	1.708E-02	1.920E-02	2.266E-02	2.937E-02	4.219E-02	1.404E-01
5.50E 01--1.11E 00	2.364E-02	2.515E-02	2.844E-02	3.167E-02	3.562E-02	3.989E-02	4.459E-02	4.958E-02	3.151E-01
3.35E 02--5.50E 01	4.443E-02	4.685E-02	4.945E-02	5.222E-02	5.500E-02	5.786E-02	5.993E-02	6.149E-02	5.826E-01
1.83E 04--3.35E 02	2.856E-01	2.914E-01	3.385E-01	3.473E-01	3.555E-01	3.625E-01	3.679E-01	3.710E-01	4.010E 00
2.90E 05--1.83E 04	1.778E 01	1.811E 01	1.844E 01	1.875E 01	1.903E 01	1.926E 01	1.945E 01	1.953E 01	2.222E 02
1.07E 05--2.90E 05	7.838E 01	7.974E 01	8.108E 01	8.235E 01	8.349E 01	8.444E 01	8.513E 01	8.553E 01	9.799E 02
3.04E 06--1.07E 05	2.325E 02	2.364E 02	2.402E 02	2.439E 02	2.471E 02	2.498E 02	2.518E 02	2.530E 02	2.906E 03
1.12E 06--3.04E 06	6.332E 02	6.435E 02	6.535E 02	6.630E 02	6.714E 02	6.785E 02	6.836E 02	6.866E 02	7.918E 03
4.14E 07--1.12E 06	1.716E 03	1.742E 03	1.768E 03	1.793F 03	1.815E 03	1.833F 03	1.846E 03	1.854E 03	2.145E 04
0.0	3.793F 03	3.849E 03	3.905E 03	3.959E 03	4.004E 03	4.043E 03	4.071E 03	4.087E 03	4.743E 04
	5.548E 03	5.624E 03	5.698F 03	5.768E 03	5.829E 03	5.878E 03	5.912E 03	5.931E 03	6.942E 04

## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 600.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9854	ANGLE 3 MU=-0.9445	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	-1.545E-04	-1.239E-04	-3.143E-05	3.102E-05	9.112E-05	5.533E-05	8.310E-07	3.684E-05	1.739E-04
6.36E 00---8.19E 00	9.322E-04	9.164E-04	8.647E-04	8.150E-04	8.350E-04	9.669E-04	1.222E-03	1.571E-03	1.965E-03
4.97E 00---6.36E 00	1.588E-03	1.585E-03	1.578E-03	1.591E-03	1.657E-03	1.795E-03	2.013E-03	2.299E-03	2.644E-03
4.07E 00---4.97E 00	2.140E-03	2.147E-03	2.177E-03	2.236E-03	2.326E-03	2.451E-03	2.619E-03	2.841E-03	3.134E-03
3.01E 00---4.07E 00	2.168E-03	2.169E-03	2.175E-03	2.191E-03	2.245E-03	2.282E-03	2.377E-03	2.524E-03	2.741E-03
2.46E 00---3.01E 00	3.288E-03	3.294E-03	3.322E-03	3.378E-03	3.469E-03	3.610E-03	3.820E-03	4.127E-03	4.568E-03
2.35E 00---2.46E 00	4.688E-03	4.700E-03	4.751E-03	4.858E-03	5.033E-03	5.301E-03	5.693E-03	6.255E-03	7.044E-03
1.83E 00---2.35E 00	4.679E-03	4.694E-03	4.759E-03	4.889E-03	5.089E-03	5.377E-03	5.775E-03	6.310E-03	7.017E-03
1.11E 00---1.83E 00	6.603E-03	6.623E-03	6.708E-03	6.874E-03	7.122E-03	7.469E-03	7.928E-03	8.521E-03	9.271E-03
5.50E 01---1.11E 00	1.428E-02	1.432E-02	1.449E-02	1.482E-02	1.531E-02	1.597E-02	1.685E-02	1.796E-02	1.935E-02
1.11E 01---5.50E 01	3.221E-02	3.228E-02	3.256E-02	3.309E-02	3.386E-02	3.487E-02	3.614E-02	3.768E-02	3.947E-02
2.35E 02---1.11E 01	2.697E-01	2.700E-01	2.715E-01	2.742E-01	2.780E-01	2.829E-01	2.890E-01	2.960E-01	3.039E-01
5.83E 04---3.35E 02	2.519E-01	2.521E-01	2.532E-01	2.552E-01	2.579E-01	2.615E-01	2.658E-01	2.707E-01	2.762E-01
1.01E 04---5.83E 04	1.600E 01	1.601E 01	1.608E 01	1.619F 01	1.636E 01	1.657E 01	1.682E 01	1.711E 01	1.743E 01
2.90E 05---1.01E 04	7.150E 01	7.156E 01	7.183E 01	7.232E 01	7.301E 01	7.390E 01	7.496E 01	7.618E 01	7.752E 01
1.07E 05---2.90E 05	2.138E 02	2.140E 02	2.148E 02	2.162E 02	2.182E 02	2.208E 02	2.239E 02	2.275E 02	2.314E 02
3.06E 06---1.07E 05	5.284E 02	5.889E 02	5.910E 02	5.948E 02	6.002E 02	6.071E 02	6.154E 02	6.249E 02	6.352E 02
1.12E 06---3.06E 06	1.607E 03	1.609E 03	1.614E 03	1.624E 03	1.639E 03	1.657E 03	1.679E 03	1.704E 03	1.731E 03
4.14E 07---1.12E 06	3.580E 03	3.583E 03	3.595E 03	3.617E 03	3.648E 03	3.688E 03	3.735E 03	3.789E 03	3.848E 03
0.0	5.304E 03	5.309E 03	5.327E 03	5.358E 03	5.401E 03	5.455E 03	5.517E 03	5.588E 03	5.665E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	4.007E-04	6.370E-04	8.905E-04	1.494E-03	3.463E-03	9.260E-03	2.643E-02	1.882E-01	5.461E-02
6.36E 00---8.19E 00	2.373E-03	2.827E-03	3.474E-03	4.526E-03	6.858E-03	1.129E-02	2.081E-02	4.751E-02	5.046E-02
4.97E 00---6.36E 00	3.061E-03	3.610E-03	4.407E-03	5.643E-03	7.600E-03	1.073E-02	1.591E-02	2.558E-02	5.347E-02
4.07E 00---4.97E 00	3.529E-03	4.074E-03	4.844E-03	5.944E-03	7.522E-03	9.794E-03	1.312E-02	1.846E-02	5.809E-02
3.01E 00---4.07E 00	3.053E-03	3.492E-03	4.102E-03	4.938E-03	6.068E-03	7.587E-03	9.648E-03	1.271E-02	4.697E-02
2.46E 00---3.01E 00	5.195E-03	6.077E-03	7.319E-03	9.073E-03	1.157E-02	1.524E-02	2.099E-02	3.215E-02	8.556E-02
2.35E 00---2.46E 00	8.146E-03	9.682E-03	1.183E-02	1.486E-02	1.920E-02	2.562E-02	3.586E-02	5.601E-02	1.374E-01
1.83E 00---2.35E 00	7.944E-03	9.150E-03	1.072E-02	1.277E-02	1.547E-02	1.911E-02	2.432E-02	3.340E-02	1.185E-01
1.11E 00---1.83E 00	1.021E-02	1.137E-02	1.280E-02	1.454E-02	1.683E-02	1.911E-02	2.202E-02	2.544E-02	1.396E-01
5.50E 01---1.11E 00	2.105E-02	2.312E-02	2.560E-02	2.850E-02	3.185E-02	3.565E-02	3.949E-02	4.330E-02	2.801E-01
1.11E 01---5.50E 01	4.153E-02	4.383E-02	4.633E-02	4.896E-02	5.160E-02	5.407E-02	5.614E-02	5.750E-02	5.255E-01
3.35E 02---1.11E 01	3.125E-01	3.216E-01	3.308E-01	3.398E-01	3.481E-01	3.553E-01	3.605E-01	3.638E-01	3.608E 00
5.83E 04---3.35E 02	2.821E-01	2.882E-01	2.943E-01	3.001E-01	3.053E-01	3.097E-01	3.130E-01	3.149E-01	3.226E 00
1.01E 04---5.83E 04	1.777E 01	1.812E 01	1.847E 01	1.880E 01	1.910E 01	1.935E 01	1.953E 01	1.964E 01	2.221E 02
2.90E 05---1.01E 04	7.895E 01	8.041E 01	8.186E 01	8.324E 01	8.447E 01	8.549E 01	8.624E 01	8.668E 01	9.868E 02
1.07E 05---2.90E 05	2.356E 02	2.398E 02	2.440E 02	2.480E 02	2.516E 02	2.546E 02	2.567E 02	2.580E 02	2.944E 03
3.06E 06---1.07E 05	6.462E 02	6.575E 02	6.687E 02	6.752E 02	6.885E 02	6.963E 02	7.020E 02	7.053E 02	8.078E 03
1.12E 06---3.06E 06	1.760E 03	1.790E 03	1.819E 03	1.847E 03	1.885E 03	1.892E 03	1.907E 03	1.915E 03	2.200E 04
4.14E 07---1.12E 06	3.911E 03	3.975E 03	4.037E 03	4.097E 03	4.149E 03	4.193E 03	4.225E 03	4.243E 03	4.889E 04
0.0	5.748E 03	5.834E 03	5.919E 03	5.999E 03	6.068E 03	6.124E 03	6.164E 03	6.186E 03	7.191E 04

## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 900.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	-3.817E-05	-3.042E-05	-6.336E-06	1.124E-05	2.572E-05	1.467E-05	5.285E-06	1.672E-05	6.747E-05
6.36E 00---8.19E 00	2.820E-04	2.783E-04	2.670E-04	2.589E-04	2.728E-04	3.204E-04	4.057E-04	5.206E-04	6.516E-04
4.97E 00---6.36E 00	6.014E-04	6.007E-04	6.004E-04	6.099E-04	6.417E-04	7.036E-04	7.967E-04	9.168E-04	1.061E-03
3.07E 00---4.97E 00	9.139E-04	9.172E-04	9.312E-04	9.583E-04	9.988E-04	1.055E-03	1.131E-03	1.231E-03	1.364E-03
2.46E 00---3.07E 00	1.453E-03	1.456E-03	1.470E-03	1.497E-03	1.542E-03	1.612E-03	1.698E-03	1.811E-03	1.954E-03
2.35E 00---2.46E 00	2.110E-03	2.117E-03	2.147E-03	2.205E-03	2.302E-03	2.447E-03	2.657E-03	2.957E-03	3.379E-03
1.83E 00---2.35E 00	2.251E-03	2.259E-03	2.294E-03	2.361E-03	2.464E-03	2.614E-03	2.818E-03	3.094E-03	3.458E-03
1.11E 00---1.83E 00	3.266E-03	3.276E-03	3.320E-03	3.405E-03	3.532E-03	3.709E-03	3.943E-03	4.246E-03	4.627E-03
5.50E 01---1.11E 00	7.583E-03	7.606E-03	7.704E-03	7.892E-03	8.168E-03	8.500E-03	9.047E-03	9.681E-03	1.047E-02
1.11E 01---5.50E 01	1.896E-02	1.901E-02	1.919E-02	1.952E-02	2.000E-02	2.064E-02	2.143E-02	2.240E-02	2.353E-02
3.35E 02---1.11E 01	1.734E-01	1.736E-01	1.747E-01	1.769E-01	1.792E-01	1.827E-01	1.869E-01	1.919E-01	1.974E-01
5.83E 04---3.35E 02	1.664E-01	1.666E-01	1.674E-01	1.688E-01	1.708E-01	1.734E-01	1.765E-01	1.801E-01	1.841E-01
1.01E 04---5.83E 04	1.081E 01	1.082E 01	1.087E 01	1.095E 01	1.108E 01	1.124E 01	1.142E 01	1.164E 01	1.188E 01
2.90E 05---1.01E 04	4.903E 01	4.908E 01	4.929E 01	4.966E 01	5.019E 01	5.088E 01	5.169E 01	5.263E 01	5.367E 01
1.07E 05---2.90E 05	1.483E 02	1.484E 02	1.491E 02	1.502E 02	1.518E 02	1.538E 02	1.562E 02	1.590E 02	1.621E 02
3.06E 06---1.07E 05	4.139E 02	4.143E 02	4.160E 02	4.190E 02	4.233E 02	4.289E 02	4.355E 02	4.431E 02	4.514E 02
1.12E 06---3.06E 06	1.143E 03	1.144E 03	1.148E 03	1.157E 03	1.168E 03	1.183E 03	1.201E 03	1.221E 03	1.244E 03
4.14E 07---1.12E 06	2.571E 03	2.573E 03	2.583E 03	2.601E 03	2.627E 03	2.660E 03	2.699E 03	2.744E 03	2.793E 03
0.0 ---4.14E-07	3.851E 03	3.855E 03	3.870E 03	3.896E 03	3.932E 03	3.976E 03	4.025E 03	4.089E 03	4.154E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	1.410E-04	2.186E-04	3.145E-04	5.539E-04	1.285E-03	3.310E-03	8.789E-03	4.501E-02	1.551E-02
6.36E 00---8.19E 00	7.915E-04	9.569E-04	1.208E-03	1.673E-03	2.582E-03	4.366E-03	8.006E-03	1.737E-02	1.825E-02
4.97E 00---6.36E 00	1.237E-03	1.474E-03	1.828E-03	2.389E-03	3.283E-03	4.699E-03	6.959E-03	1.078E-02	2.232E-02
3.07E 00---4.97E 00	1.545E-03	1.800E-03	2.163E-03	2.684E-03	3.426E-03	4.666E-03	5.892E-03	7.832E-03	2.682E-02
2.46E 00---3.07E 00	1.360E-03	1.564E-03	1.845E-03	2.255E-03	2.722E-03	3.354E-03	4.123E-03	5.015E-03	2.074E-02
2.35E 00---2.46E 00	3.971E-03	4.807E-03	5.923E-03	7.694E-03	1.016E-02	1.381E-02	1.942E-02	2.922E-02	4.041E-02
1.83E 00---2.35E 00	3.935E-03	4.544E-03	5.345E-03	6.383E-03	7.697E-03	9.371E-03	1.150E-02	1.441E-02	5.793E-02
1.11E 00---1.83E 00	5.100E-03	5.681E-03	6.384E-03	7.280E-03	8.187E-03	9.262E-03	1.037E-02	1.138E-02	6.882E-02
5.50E 01---1.11E 00	1.144E-02	1.261E-02	1.403E-02	1.561E-02	1.742E-02	1.935E-02	2.123E-02	2.275E-02	1.517E-01
1.11E 01---5.50E 01	2.035E-01	2.098E-01	2.163E-01	2.227E-01	2.285E-01	2.344E-01	2.375E-01	2.393E-01	2.544E 00
3.35E 02---1.11E 01	1.884E-01	1.928E-01	1.973E-01	2.015E-01	2.053E-01	2.085E-01	2.109E-01	2.123E-01	2.354E 00
5.83E 04---3.35E 02	1.214E 01	1.241E 01	1.267E 01	1.292E 01	1.315E 01	1.334E 01	1.349E 01	1.356E 01	1.517E 02
2.90E 05---1.01E 04	5.477E 01	5.591E 01	5.704E 01	5.811E 01	5.906E 01	5.986E 01	6.045E 01	6.079E 01	6.843E 02
1.07E 05---2.90E 05	1.654F 02	1.688E 02	1.721E 02	1.753E 02	1.781E 02	1.805E 02	1.822E 02	1.832E 02	2.067E 03
3.06E 06---1.07E 05	4.603E 02	4.695E 02	4.785E 02	4.871E 02	4.947E 02	5.011E 02	5.058E 02	5.085E 02	5.752E 03
1.12E 06---3.06E 06	1.268E 03	1.292E 03	1.316E 03	1.336E 03	1.360E 03	1.377E 03	1.389E 03	1.396E 03	1.584E 04
4.14E 07---1.12E 06	2.845E 03	2.899E 03	2.952E 03	3.007E 03	3.046E 03	3.083E 03	3.111E 03	3.126E 03	3.555E 04
0.0 ---4.14E-07	4.225E 03	4.298E 03	4.371E 03	4.439E 03	4.499E 03	4.547E 03	4.582E 03	4.602E 03	5.283E 04

## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-9.083E-06	-7.189E-06	-1.215E-06	3.377E-06	6.783E-06	3.963E-06	2.513E-06	7.539E-06	2.221E-05
6.36E 00--8.19E 00	8.039E-05	7.963E-05	7.744E-05	7.679E-05	8.242E-05	9.764E-05	1.236E-04	1.585E-04	1.990E-04
4.97E 00--6.36E 00	2.032E-04	2.031E-04	2.031E-04	2.081E-04	2.203E-04	2.434E-04	2.771E-04	3.202E-04	3.719E-04
4.07E 00--4.97E 00	3.334E-04	3.346E-04	3.403E-04	3.503E-04	3.656E-04	3.869E-04	4.152E-04	4.528E-04	5.033E-04
3.01E 00--4.07E 00	3.566E-04	3.566E-04	3.573E-04	3.595E-04	3.644E-04	3.738E-04	3.899E-04	4.155E-04	4.540E-04
2.46E 00--3.01E 00	5.413E-04	5.426E-04	5.481E-04	5.591E-04	5.773E-04	6.056E-04	6.481E-04	7.111E-04	8.027E-04
1.83E 00--2.46E 00	7.975E-04	8.005E-04	8.136E-04	8.397E-04	8.811E-04	9.431E-04	1.033E-03	1.160E-03	1.340E-03
1.11E 00--1.83E 00	9.004E-04	9.039E-04	9.186E-04	9.471E-04	9.908E-04	1.054E-03	1.140E-03	1.256E-03	1.409E-03
5.50E-01--1.11E 00	1.338E-03	1.343E-03	1.361E-03	1.396E-03	1.449E-03	1.524E-03	1.622E-03	1.748E-03	1.908E-03
3.35E-02--1.11E-01	3.250E-03	3.260E-03	3.305E-03	3.388E-03	3.511E-03	3.682E-03	3.904E-03	4.187E-03	4.540E-03
5.83E-04--3.35E-02	8.648E-03	8.668E-03	8.753E-03	8.910E-03	9.137E-03	9.439E-03	9.816E-03	1.027E-02	1.081E-02
1.01E-04--5.83E-04	8.327E-02	8.339E-02	8.391E-02	8.485E-02	8.619E-02	8.794E-02	8.630E-02	8.815E-02	9.019E-02
2.90E-05--1.01E-04	8.113E-02	8.123E-02	8.163E-02	8.235E-02	8.338E-02	8.471E-02	8.605E-02	8.741E-02	8.881E-02
1.07E-05--2.90E-05	5.338E 00	5.343E 00	5.368E 00	5.413E 00	5.477E 00	5.559E 00	5.658E 00	5.771E 00	5.897E 00
3.06E-06--1.07E-05	2.442E 01	2.444E 01	2.455E 01	2.475E 01	2.503E 01	2.539E 01	2.582E 01	2.631E 01	2.686E 01
1.12E-06--3.06E-06	7.433E 01	7.441E 01	7.474E 01	7.533E 01	7.617E 01	7.725E 01	7.855E 01	8.003E 01	8.167E 01
4.14E-07--1.12E-06	2.091E 02	2.093E 02	2.102E 02	2.118E 02	2.142E 02	2.171E 02	2.207E 02	2.248E 02	2.293E 02
0.0	5.809E 02	5.814E 02	5.839E 02	5.883E 02	5.946E 02	6.027E 02	6.123E 02	6.234E 02	6.356E 02
	1.314E 03	1.316E 03	1.321E 03	1.331E 03	1.345E 03	1.363E 03	1.384E 03	1.409E 03	1.436E 03
	1.931E 03	1.933E 03	1.991E 03	2.006E 03	2.025E 03	2.050E 03	2.079E 03	2.112E 03	2.148E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	4.354E-05	6.694E-05	9.942E-05	1.817E-04	4.198E-04	1.048E-03	2.648E-03	1.076E-02	4.278E-03
6.36E 00--8.19E 00	2.439E-04	3.000E-04	3.891E-04	5.571E-04	8.833E-04	1.519E-03	2.759E-03	5.645E-03	6.012E-03
4.97E 00--6.36E 00	4.360E-04	5.239E-04	6.578E-04	8.716E-04	1.212E-03	1.746E-03	2.567E-03	3.840E-03	8.036E-03
4.07E 00--4.97E 00	5.727E-04	6.709E-04	8.117E-04	1.014E-03	1.299E-03	1.690E-03	2.202E-03	2.816E-03	9.245E-03
3.01E 00--4.07E 00	5.097E-04	5.881E-04	6.954E-04	8.382E-04	1.021E-03	1.246E-03	1.501E-03	1.751E-03	7.233E-03
2.46E 00--3.01E 00	9.343E-04	1.122E-03	1.389E-03	1.769E-03	2.308E-03	3.049E-03	4.140E-03	5.686E-03	1.589E-02
1.83E 00--2.46E 00	1.594E-03	1.955E-03	2.475E-03	3.234E-03	4.352E-03	6.020E-03	8.548E-03	1.261E-02	2.887E-02
1.11E 00--1.83E 00	1.610E-03	1.870E-03	2.206E-03	2.634E-03	3.171E-03	3.831E-03	4.613E-03	5.494E-03	2.357E-02
5.50E-01--1.11E 00	2.105E-03	2.346E-03	2.635E-03	2.973E-03	3.356E-03	3.766E-03	4.162E-03	4.470E-03	2.823E-02
3.35E-02--1.11E-01	4.972E-03	5.493E-03	6.108E-03	6.816E-03	7.599E-03	8.414E-03	9.175E-03	9.733E-03	6.579E-02
5.83E-04--3.35E-02	1.142E-02	1.210E-02	1.284E-02	1.360E-02	1.435E-02	1.503E-02	1.557E-02	1.590E-02	1.443E-01
1.01E-04--5.83E-04	9.837E-02	1.016E-01	1.048E-01	1.080E-01	1.109E-01	1.134E-01	1.157E-01	1.163E-01	1.229E 00
2.90E-05--1.01E-04	9.238E-02	9.465E-02	9.692E-02	9.909E-02	1.010E-01	1.027E-01	1.039E-01	1.046E-01	1.154E 00
1.07E-05--2.90E-05	6.031E 00	6.170E 00	6.308E 00	6.439E 00	6.566E 00	6.685E 00	6.727E 00	6.769E 00	7.533E 01
1.12E-06--3.06E-06	2.744E 01	2.804E 01	2.863E 01	2.923E 01	2.970E 01	3.013E 01	3.045E 01	3.062E 01	3.272E 02
4.14E-07--1.12E-06	8.342E 01	8.522E 01	8.701E 01	8.870E 01	9.021E 01	9.147E 01	9.240E 01	9.294E 01	1.042E 03
	2.341E 02	2.390E 02	2.439E 02	2.485E 02	2.526E 02	2.561E 02	2.586E 02	2.601E 02	2.924E 03
	6.486E 02	6.619E 02	6.751E 02	6.876E 02	6.987E 02	7.080E 02	7.148E 02	7.187E 02	8.102E 03
	1.464E 03	1.494E 03	1.523E 03	1.550E 03	1.575E 03	1.595E 03	1.610E 03	1.619E 03	1.829E 04
	2.187E 03	2.228E 03	2.268E 03	2.306E 03	2.339E 03	2.366E 03	2.386E 03	2.396E 03	2.735E 04

## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-2.127E-06	-1.671E-06	-2.197E-07	9.402E-07	1.742E-06	1.085E-06	9.514E-07	2.545E-06	6.873E-06
6.36E 00--8.19E 00	2.216E-05	2.202E-05	2.165E-05	2.186E-05	2.380E-05	2.837E-05	3.594E-05	4.612E-05	5.815E-05
4.97E 00--6.36E 00	6.447E-05	6.447E-05	6.483E-05	6.653E-05	7.087E-05	7.860E-05	8.980E-05	1.040E-04	1.212E-04
3.07E 00--4.97E 00	1.116E-04	1.120E-04	1.135E-04	1.174E-04	1.226E-04	1.299E-04	1.396E-04	1.524E-04	1.697E-04
4.01E 00--4.07E 00	1.207E-04	1.207E-04	1.210E-04	1.217E-04	1.233E-04	1.266E-04	1.321E-04	1.410E-04	1.543E-04
2.46E 00--3.01E 00	1.835E-04	1.839E-04	1.859E-04	1.899E-04	1.964E-04	2.067E-04	2.221E-04	2.450E-04	2.784E-04
2.35E 00--2.46E 00	2.734E-04	2.746E-04	2.795E-04	2.895E-04	3.052E-04	3.284E-04	3.619E-04	4.095E-04	4.688E-04
1.93E 00--2.35E 00	3.237E-04	3.250E-04	3.305E-04	3.413E-04	3.577E-04	3.812E-04	4.134E-04	4.568E-04	5.141E-04
1.11E 00--1.83E 00	4.918E-04	4.934E-04	5.003E-04	5.134E-04	5.332E-04	5.609E-04	5.975E-04	6.448E-04	7.043E-04
5.50E 01--1.11E 00	1.233E-03	1.237E-03	1.255E-03	1.287E-03	1.335E-03	1.402E-03	1.488E-03	1.599E-03	1.737E-03
1.11E 01--5.50E 01	3.421E-03	3.429E-03	3.465E-03	3.527E-03	3.619E-03	3.741E-03	3.894E-03	4.079E-03	4.295E-03
3.35E 02--1.11E 01	3.411E-02	3.411E-02	3.435E-02	3.473E-02	3.529E-02	3.602E-02	3.691E-02	3.796E-02	3.913E-02
5.83E 04--3.35E 02	3.350E-02	3.355E-02	3.372E-02	3.402E-02	3.446E-02	3.502E-02	3.570E-02	3.648E-02	3.735E-02
1.01E 04--5.83E 04	2.222E 00	2.224E 00	2.235E 00	2.254E 00	2.281E 00	2.317E 00	2.359E 00	2.407E 00	2.461E 00
2.90E 05--1.01E 04	1.022E 01	1.023E 01	1.027E 01	1.036E 01	1.048E 01	1.063E 01	1.082E 01	1.103E 01	1.127E 01
1.07E 05--2.90E 05	3.123E 01	3.126E 01	3.140E 01	3.166E 01	3.202E 01	3.249E 01	3.305E 01	3.370E 01	3.441E 01
3.06E 06--1.07E 05	8.827E 01	8.856E 01	8.875E 01	8.947E 01	9.048E 01	9.177E 01	9.332E 01	9.511E 01	9.707E 01
1.12E 06--3.06E 06	2.461E 02	2.464E 02	2.475E 02	2.494E 02	2.522E 02	2.557E 02	2.599E 02	2.648E 02	2.701E 02
4.14E 07--1.12E 06	5.589E 02	5.594E 02	5.618E 02	5.662E 02	5.723E 02	5.802E 02	5.896E 02	6.004E 02	6.123E 02
0.0	8.458E 02	8.467E 02	8.502E 02	8.565E 02	8.652E 02	8.761E 02	8.889E 02	9.036E 02	9.197E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	1.556E-05	1.931E-05	2.957E-05	5.552E-05	1.274E-04	3.095E-04	7.520E-04	2.574E-03	1.533E-03
6.36E 00--8.19E 00	7.200E-05	9.015E-05	1.203E-04	1.766E-04	2.567E-04	4.962E-04	8.914E-04	1.729E-03	1.878E-03
4.97E 00--6.36E 00	1.427E-04	1.727E-04	2.189E-04	2.928E-04	4.104E-04	5.923E-04	8.637E-04	1.253E-03	2.677E-03
3.07E 00--4.97E 00	1.938E-04	2.279E-04	2.765E-04	3.470E-04	4.452E-04	5.776E-04	7.442E-04	9.264E-04	3.133E-03
2.46E 00--3.07E 00	1.736E-04	2.066E-04	2.374E-04	2.860E-04	3.473E-04	4.268E-04	4.998E-04	5.695E-04	2.616E-03
2.35E 00--2.46E 00	3.265E-04	3.936E-04	4.943E-04	6.351E-04	8.349E-04	1.115E-03	1.499E-03	2.004E-03	5.628E-03
1.93E 00--2.35E 00	5.724E-04	7.096E-04	9.095E-04	1.205E-03	1.648E-03	2.316E-03	3.325E-03	4.860E-03	1.070E-02
1.83E 00--1.93E 00	5.893E-04	6.870E-04	8.125E-04	9.716E-04	1.169E-03	1.406E-03	1.674E-03	1.938E-03	8.611E-03
1.11E 00--1.83E 00	7.778E-04	8.673E-04	9.741E-04	1.098E-03	1.237E-03	1.381E-03	1.516E-03	1.613E-03	1.040E-02
5.50E 01--1.11E 00	1.905E-03	2.168E-03	2.347E-03	2.620E-03	2.920E-03	3.227E-03	3.506E-03	3.700E-03	2.518E-02
1.11E 01--5.50E 01	4.543E-03	4.818E-03	5.115E-03	5.421E-03	5.720E-03	5.991E-03	6.206E-03	6.336E-03	5.737E-02
3.35E 02--1.11E 01	4.040E-02	4.175E-02	4.311E-02	4.444E-02	4.566E-02	4.659E-02	4.747E-02	4.792E-02	5.049E-01
5.83E 04--3.35E 02	3.828E-02	3.924E-02	4.020E-02	4.112E-02	4.195E-02	4.264E-02	4.315E-02	4.345E-02	4.780E-01
1.01E 04--5.83E 04	2.519E 00	2.578E 00	2.637E 00	2.693E 00	2.744E 00	2.786E 00	2.817E 00	2.835E 00	3.145E 01
2.90E 05--1.01E 04	1.152E 01	1.178E 01	1.204E 01	1.228E 01	1.250E 01	1.268E 01	1.281E 01	1.289E 01	1.439E 02
1.07E 05--2.90E 05	3.517E 01	3.595E 01	3.675E 01	3.746E 01	3.812E 01	3.866E 01	3.907E 01	3.930E 01	4.392E 02
3.06E 06--1.07E 05	9.917E 01	1.013E 02	1.035E 02	1.055E 02	1.073E 02	1.088E 02	1.099E 02	1.105E 02	1.239E 03
1.12E 06--3.06E 06	2.758E 02	2.817E 02	2.875E 02	2.930E 02	2.979E 02	3.020E 02	3.050E 02	3.067E 02	3.445E 03
4.14E 07--1.12E 06	6.250E 02	6.280E 02	6.309E 02	6.339E 02	6.369E 02	6.399E 02	6.429E 02	6.459E 02	7.807E 03
0.0	9.371E 02	9.550E 02	9.729E 02	9.897E 02	1.004E 03	1.016E 03	1.025E 03	1.030E 03	1.171E 04



8.187 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 1800.0 METERS

NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON									
ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	-4.939E-07	-3.853E-07	-3.629E-08	2.516E-07	4.415E-07	2.966E-07	3.598E-07	7.816E-07	1.899E-06
6.36E 00--8.19E 00	5.974E-06	5.952E-06	5.915E-06	6.055E-06	6.567E-06	7.988E-06	1.013E-05	1.303E-05	1.652E-05
4.97E 00--6.36E 00	1.964E-05	1.966E-05	1.981E-05	2.040E-05	2.182E-05	2.427E-05	2.780E-05	3.225E-05	3.767E-05
3.01E 00--4.97E 00	3.536E-05	3.550E-05	3.609E-05	3.722E-05	3.890E-05	4.124E-05	4.434E-05	4.847E-05	5.408E-05
2.46E 00--3.01E 00	3.849E-05	3.850E-05	3.858E-05	3.881E-05	3.935E-05	4.039E-05	4.218E-05	4.505E-05	4.937E-05
2.35E 00--2.46E 00	8.811E-05	8.853E-05	9.029E-05	9.375E-05	9.916E-05	1.072E-04	1.187E-04	1.351E-04	1.583E-04
1.83E 00--2.35E 00	1.085E-04	1.090E-04	1.109E-04	1.146E-04	1.203E-04	1.285E-04	1.396E-04	1.546E-04	1.745E-04
1.11E 00--1.83E 00	1.681E-04	1.686E-04	1.710E-04	1.756E-04	1.824E-04	1.923E-04	2.047E-04	2.211E-04	2.417E-04
5.50E 01--1.11E 00	4.321E-04	4.335E-04	4.397E-04	4.513E-04	4.685E-04	4.922E-04	5.232E-04	5.628E-04	6.120E-04
1.11E 01--5.50E 01	1.255E-03	1.238E-03	1.251E-03	1.274E-03	1.308E-03	1.353E-03	1.409E-03	1.477E-03	1.556E-03
3.35E 02--1.11E 01	1.259E-02	1.261E-02	1.269E-02	1.284E-02	1.305E-02	1.333E-02	1.366E-02	1.406E-02	1.450E-02
5.83E 04--3.35E 02	1.246E-02	1.248E-02	1.254E-02	1.266E-02	1.283E-02	1.304E-02	1.329E-02	1.359E-02	1.392E-02
1.01E 04--5.83E 04	8.308E-01	8.318E-01	8.359E-01	8.432E-01	8.536E-01	8.670E-01	8.831E-01	9.016E-01	9.221E-01
2.90E 05--1.01E 04	3.834E 00	3.838E 00	3.856E 00	3.888E 00	3.935E 00	3.994E 00	4.065E 00	4.146E 00	4.237E 00
1.07E 05--2.90E 05	1.175E 01	1.176E 01	1.182E 01	1.192E 01	1.206E 01	1.224E 01	1.245E 01	1.270E 01	1.297E 01
3.06E 06--1.07E 05	3.332E 01	3.336E 01	3.351E 01	3.378E 01	3.417E 01	3.467E 01	3.527E 01	3.596E 01	3.672E 01
1.12E 06--3.06E 06	9.315E 01	9.325E 01	9.366E 01	9.442E 01	9.548E 01	9.685E 01	9.848E 01	1.004E 02	1.024E 02
4.14E 07--1.12E 06	2.120E 02	2.122E 02	2.132E 02	2.148E 02	2.172E 02	2.203E 02	2.239E 02	2.281E 02	2.327E 02
0.0	3.217E 02	3.220E 02	3.234E 02	3.259E 02	3.292E 02	3.335E 02	3.385E 02	3.442E 02	3.504E 02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	3.479E-06	5.372E-06	8.446E-06	1.617E-05	3.679E-05	8.737E-05	2.054E-04	6.167E-04	3.053E-04
6.36E 00--8.19E 00	2.088E-05	2.635E-05	3.588E-05	5.404E-05	8.921E-05	1.552E-04	2.759E-04	5.109E-04	5.666E-04
4.97E 00--6.36E 00	4.452E-05	5.419E-05	6.918E-05	9.344E-05	1.315E-04	1.896E-04	2.742E-04	3.874E-04	8.405E-04
3.01E 00--4.97E 00	6.188E-05	7.298E-05	8.893E-05	1.117E-04	1.433E-04	1.853E-04	2.365E-04	2.895E-04	1.000E-03
2.46E 00--3.01E 00	1.069E-04	1.303E-04	1.640E-04	2.123E-04	2.807E-04	3.763E-04	5.047E-04	1.768E-04	8.348E-04
1.83E 00--2.46E 00	1.914E-04	2.393E-04	3.097E-04	4.154E-04	5.706E-04	8.202E-04	1.190E-03	1.733E-03	3.679E-03
1.11E 00--1.83E 00	2.006E-04	2.344E-04	3.279E-04	3.329E-04	4.244E-04	4.803E-04	5.673E-04	6.464E-04	2.928E-03
5.50E 01--1.11E 00	6.723E-04	7.448E-04	8.300E-04	9.271E-04	1.033E-03	1.140E-03	1.234E-03	1.301E-03	3.563E-03
1.07E 05--5.50E 01	1.647E-03	1.748E-03	1.856E-03	1.968E-03	2.077E-03	2.175E-03	2.253E-03	2.300E-03	2.079E-02
3.35E 02--1.11E 01	1.498E-02	1.548E-02	1.599E-02	1.649E-02	1.695E-02	1.734E-02	1.763E-02	1.780E-02	1.871E-01
5.83E 04--3.35E 02	1.427E-02	1.463E-02	1.500E-02	1.535E-02	1.564E-02	1.592E-02	1.611E-02	1.623E-02	1.782E-01
1.01E 04--5.83E 04	9.441E-01	9.667E-01	9.892E-01	1.011F 00	1.030E 00	1.046E 00	1.058E 00	1.064E 00	1.179E 01
2.90E 05--1.01E 04	4.333E 00	4.432E 00	4.530E 00	4.623F 00	4.707E 00	4.774E 00	4.827E 00	4.857E 00	5.410E 01
1.07E 05--2.90E 05	1.326E 01	1.356E 01	1.386E 01	1.414E 01	1.440E 01	1.461E 01	1.476E 01	1.485E 01	1.656E 02
3.06E 06--1.07E 05	3.753E 01	3.836E 01	3.918E 01	3.996E 01	4.066E 01	4.124E 01	4.166E 01	4.191E 01	4.586E 02
1.12E 06--3.06E 06	1.046E 02	1.069E 02	1.092E 02	1.113E 02	1.132E 02	1.147E 02	1.159E 02	1.164E 02	1.307E 03
4.14E 07--1.12E 06	2.377E 02	2.427E 02	2.472E 02	2.524E 02	2.566E 02	2.601E 02	2.627E 02	2.642E 02	2.968E 03
0.0	3.572E 02	3.642E 02	3.711E 02	3.777E 02	3.834E 02	3.881E 02	3.915E 02	3.934E 02	4.464E 03

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=	ANGLE 2 MU=	ANGLE 3 MU=	ANGLE 4 MU=	ANGLE 5 MU=	ANGLE 6 MU=	ANGLE 7 MU=	ANGLE 8 MU=	ANGLE 9 MU=
8.00E 00--1.00E 01	2.483E-05	2.496E-05	2.548E-05	2.651E-05	2.803E-05	3.014E-05	3.297E-05	3.678E-05	4.194E-05
6.50E 00--8.00E 00	1.911E-04	1.922E-04	1.964E-04	2.046E-04	2.166E-04	2.330E-04	2.549E-04	2.845E-04	3.245E-04
5.00E 00--6.50E 00	1.758E-03	1.768E-03	1.807E-03	1.881E-03	1.990E-03	2.136E-03	2.330E-03	2.590E-03	2.941E-03
4.00E 00--5.00E 00	8.412E-04	8.488E-04	8.698E-04	9.266E-04	9.918E-04	1.071E-03	1.170E-03	1.300E-03	1.477E-03
3.00E 00--4.00E 00	8.364E-04	8.434E-04	8.694E-04	9.157E-04	9.765E-04	1.051E-03	1.145E-03	1.268E-03	1.435E-03
2.50E 00--3.00E 00	1.582E-03	1.592E-03	1.631E-03	1.703E-03	1.804E-03	1.938E-03	2.114E-03	2.349E-03	2.668E-03
2.00E 00--2.50E 00	1.996E-03	2.007E-03	2.052E-03	2.136E-03	2.256E-03	2.417E-03	2.632E-03	2.919E-03	3.308E-03
1.66E 00--2.00E 00	1.820E-03	1.828E-03	1.861E-03	1.928E-03	2.029E-03	2.175E-03	2.372E-03	2.642E-03	3.006E-03
1.33E 00--1.66E 00	2.277E-03	2.277E-03	2.306E-03	2.369E-03	2.479E-03	2.649E-03	2.892E-03	3.225E-03	3.671E-03
1.00E 00--1.33E 00	7.033E-04	6.944E-04	6.757E-04	6.549E-04	6.599E-04	7.042E-04	7.929E-04	9.191E-04	1.081E-03
8.00E 01--1.00E 00	7.505E-04	7.504E-04	7.537E-04	7.711E-04	8.155E-04	8.948E-04	1.010E-03	1.164E-03	1.370E-03
6.00E 01--8.00E 01	8.233E-04	8.444E-04	9.208E-04	1.046E-03	1.189E-03	1.355E-03	1.495E-03	1.705E-03	2.018E-03
4.00E 01--6.00E 01	3.988E-03	4.010E-03	4.093E-03	4.252E-03	4.494E-03	4.812E-03	5.278E-03	5.828E-03	6.800E-03
3.00E 01--4.00E 01	5.221E-03	5.239E-03	5.332E-03	5.575E-03	6.034E-03	6.745E-03	7.675E-03	8.740E-03	9.839E-03
2.00E 01--3.00E 01	1.708E-02	1.712E-02	1.727E-02	1.753E-02	1.782E-02	1.810E-02	1.839E-02	1.873E-02	1.918E-02
1.00E 01--2.00E 01	3.293E-02	3.297E-02	3.314E-02	3.346E-02	3.392E-02	3.455E-02	3.533E-02	3.630E-02	3.746E-02
5.00E 02--1.00E 01	6.581E-02	6.586E-02	6.608E-02	6.650E-02	6.711E-02	6.791E-02	6.888E-02	7.003E-02	7.134E-02
2.00E 02--5.00E 02	1.790E-02	1.791E-02	1.794E-02	1.799E-02	1.807E-02	1.818E-02	1.830E-02	1.845E-02	1.861E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=	ANGLE 11 MU=	ANGLE 12 MU=	ANGLE 13 MU=	ANGLE 14 MU=	ANGLE 15 MU=	ANGLE 16 MU=	ANGLE 17 MU=	SCALAR FLUX
8.00E 00--1.00E 01	5.063E-05	5.063E-05	5.137E-05	5.298E-05	5.598E-05	5.998E-05	6.498E-05	7.098E-05	7.898E-05
6.50E 00--8.00E 00	3.319E-04	3.319E-04	3.319E-04	3.319E-04	3.319E-04	3.319E-04	3.319E-04	3.319E-04	3.319E-04
5.00E 00--6.50E 00	3.527E-03	3.527E-03	3.527E-03	3.527E-03	3.527E-03	3.527E-03	3.527E-03	3.527E-03	3.527E-03
4.00E 00--5.00E 00	1.773E-03	1.773E-03	1.773E-03	1.773E-03	1.773E-03	1.773E-03	1.773E-03	1.773E-03	1.773E-03
3.00E 00--4.00E 00	1.601E-03	1.601E-03	1.601E-03	1.601E-03	1.601E-03	1.601E-03	1.601E-03	1.601E-03	1.601E-03
2.50E 00--3.00E 00	3.199E-03	3.199E-03	3.199E-03	3.199E-03	3.199E-03	3.199E-03	3.199E-03	3.199E-03	3.199E-03
2.00E 00--2.50E 00	3.679E-03	3.679E-03	3.679E-03	3.679E-03	3.679E-03	3.679E-03	3.679E-03	3.679E-03	3.679E-03
1.66E 00--2.00E 00	3.604E-03	3.604E-03	3.604E-03	3.604E-03	3.604E-03	3.604E-03	3.604E-03	3.604E-03	3.604E-03
1.33E 00--1.66E 00	4.401E-03	4.401E-03	4.401E-03	4.401E-03	4.401E-03	4.401E-03	4.401E-03	4.401E-03	4.401E-03
1.00E 00--1.33E 00	1.891E-03	1.891E-03	1.891E-03	1.891E-03	1.891E-03	1.891E-03	1.891E-03	1.891E-03	1.891E-03
8.00E 01--1.00E 00	1.676E-03	1.676E-03	1.676E-03	1.676E-03	1.676E-03	1.676E-03	1.676E-03	1.676E-03	1.676E-03
6.00E 01--8.00E 01	2.523E-03	2.523E-03	2.523E-03	2.523E-03	2.523E-03	2.523E-03	2.523E-03	2.523E-03	2.523E-03
4.00E 01--6.00E 01	7.931E-03	7.931E-03	7.931E-03	7.931E-03	7.931E-03	7.931E-03	7.931E-03	7.931E-03	7.931E-03
3.00E 01--4.00E 01	1.093E-02	1.093E-02	1.093E-02	1.093E-02	1.093E-02	1.093E-02	1.093E-02	1.093E-02	1.093E-02
2.00E 01--3.00E 01	1.987E-02	1.987E-02	1.987E-02	1.987E-02	1.987E-02	1.987E-02	1.987E-02	1.987E-02	1.987E-02
1.00E 01--2.00E 01	3.882E-02	3.882E-02	3.882E-02	3.882E-02	3.882E-02	3.882E-02	3.882E-02	3.882E-02	3.882E-02
5.00E 02--1.00E 01	7.279E-02	7.279E-02	7.279E-02	7.279E-02	7.279E-02	7.279E-02	7.279E-02	7.279E-02	7.279E-02
2.00E 02--5.00E 02	1.878E-02	1.878E-02	1.878E-02	1.878E-02	1.878E-02	1.878E-02	1.878E-02	1.878E-02	1.878E-02

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
MU=1.0000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950	
8.00E 00--1.00E 01	2.752E-05	2.772E-05	2.948E-05	3.189E-05	3.452E-05	3.801E-05	4.278E-05	4.941E-05	
6.50E 00--8.00E 00	2.062E-04	2.078E-04	2.141E-04	2.257E-04	2.415E-04	2.685E-04	3.049E-04	3.758E-04	
5.00E 00--6.50E 00	2.024E-04	2.041E-04	2.105E-04	2.221E-04	2.374E-04	2.588E-04	3.154E-04	3.625E-04	
4.00E 00--5.00E 00	9.320E-04	9.500E-04	1.014E-03	1.118E-03	1.232E-03	1.365E-03	1.538E-03	1.835E-03	
3.00E 00--4.00E 00	1.020E-03	1.037E-03	1.058E-03	1.137E-03	1.238E-03	1.353E-03	1.527E-03	1.979E-03	
2.50E 00--3.00E 00	1.816E-03	1.835E-03	1.905E-03	2.026E-03	2.177E-03	2.355E-03	2.877E-03	3.321E-03	
2.00E 00--2.50E 00	2.417E-03	2.436E-03	2.509E-03	2.640E-03	2.812E-03	3.030E-03	3.709E-03	4.257E-03	
1.66E 00--2.00E 00	2.209E-03	2.218E-03	2.257E-03	2.355E-03	2.462E-03	2.650E-03	3.299E-03	3.817E-03	
1.33E 00--1.66E 00	2.828E-03	2.827E-03	2.833E-03	2.874E-03	2.988E-03	3.210E-03	4.035E-03	4.672E-03	
1.00E 00--1.33E 00	1.219E-03	1.192E-03	1.108E-03	1.010E-03	9.865E-04	1.082E-03	1.573E-03	1.913E-03	
8.00E 01--1.00E 00	1.217E-03	1.213E-03	1.205E-03	1.225E-03	1.311E-03	1.482E-03	2.056E-03	2.505E-03	
6.00E 01--8.00E 01	1.131E-03	1.151E-03	1.204E-03	1.232E-03	2.062E-03	2.344E-03	3.052E-03	3.813E-03	
4.00E 01--6.00E 01	6.999E-03	7.045E-03	7.524E-03	7.536E-03	8.048E-03	8.784E-03	1.161E-02	1.398E-02	
3.00E 01--4.00E 01	9.614E-03	9.656E-03	9.999E-03	1.059E-02	1.196E-02	1.411E-02	2.003E-02	2.310E-02	
2.00E 01--3.00E 01	3.786E-02	3.799E-02	3.944E-02	3.916E-02	3.993E-02	4.201E-02	4.201E-02	4.310E-02	
1.00E 01--2.00E 01	8.698E-02	8.712E-02	8.768E-02	8.877E-02	9.037E-02	9.527E-02	9.868E-02	1.028E-01	
5.00E 02--1.00E 01	1.999E-01	2.002E-01	2.311E-01	2.030E-01	2.057E-01	2.093E-01	2.137E-01	2.251E-01	
2.00E 02--5.00E 02	5.705E-02	5.708E-02	5.722E-02	5.747E-02	5.784E-02	5.832E-02	5.959E-02	6.038E-02	

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
MU=0.0950	MU=0.2816	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	
8.00E 00--1.00E 01	4.702E-05	6.258E-05	1.202E-04	1.075E-04	1.817E-04	3.193E-04	4.971E-04	1.165E-03	1.322E-03
6.50E 00--8.00E 00	3.565E-04	6.154E-04	6.452E-04	1.093E-03	1.343E-03	2.354E-03	3.822E-03	8.891E-03	1.013E-02
5.00E 00--6.50E 00	3.485E-03	5.769E-03	5.926E-03	1.071E-02	1.017E-02	2.134E-02	3.397E-02	7.488E-02	9.162E-02
4.00E 00--5.00E 00	1.837E-03	2.990E-03	3.154E-03	5.474E-03	5.407E-03	1.105E-02	1.770E-02	3.776E-02	4.747E-02
3.00E 00--4.00E 00	2.757E-03	2.476E-03	3.311E-03	4.409E-03	4.934E-03	1.009E-02	1.666E-02	3.362E-02	4.781E-02
2.50E 00--3.00E 00	3.213E-03	5.297E-03	5.391E-03	9.757E-03	9.452E-03	1.942E-02	3.058E-02	6.459E-02	8.294E-02
2.00E 00--2.50E 00	6.037E-03	5.205E-03	8.507E-03	9.514E-03	1.534E-02	2.233E-02	3.671E-02	7.572E-02	1.047E-01
1.66E 00--2.00E 00	3.725E-03	6.106E-03	6.348E-03	1.138E-02	1.166E-02	2.292E-02	3.551E-02	7.028E-02	9.610E-02
1.33E 00--1.66E 00	4.566E-03	7.486E-03	7.838E-03	1.406E-02	1.453E-02	2.804E-02	4.261E-02	8.199E-02	1.170E-01
1.00E 00--1.33E 00	2.007E-03	3.114E-03	4.846E-03	5.861E-03	1.021E-02	1.380E-02	2.025E-02	2.783E-02	5.402E-02
8.00E 01--1.00E 00	3.486E-03	4.239E-03	6.103E-03	9.008E-03	1.199E-02	1.671E-02	2.123E-02	2.645E-02	6.717E-02
6.00E 01--8.00E 01	5.813E-03	6.217E-03	1.043E-02	1.152E-02	1.672E-02	1.936E-02	2.466E-02	2.909E-02	9.156E-02
4.00E 01--6.00E 01	1.754E-02	2.036E-02	2.447E-02	2.931E-02	3.335E-02	4.056E-02	4.831E-02	5.948E-02	3.209E-01
3.00E 01--4.00E 01	2.635E-02	2.840E-02	3.130E-02	3.517E-02	3.889E-02	4.524E-02	5.147E-02	5.885E-02	6.042E-01
2.00E 01--3.00E 01	4.549E-02	4.701E-02	5.045E-02	5.566E-02	6.001E-02	6.818E-02	7.620E-02	8.687E-02	1.385E 00
1.00E 01--2.00E 01	1.079E-01	1.136E-01	1.203E-01	1.281E-01	1.363E-01	1.453E-01	1.543E-01	1.611E-01	1.924E 00
5.00E 02--1.00E 01	2.322E-01	2.398E-01	2.431E-01	2.568E-01	2.553E-01	2.734E-01	2.801E-01	2.845E-01	2.924E 00
2.00E 02--5.00E 02	6.125E-02	6.217E-02	6.313E-02	6.409E-02	6.498E-02	6.577E-02	6.638E-02	6.675E-02	7.686E-01

4 PI R\*\*2 FLUENCE AT 200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

8.187 TO 10.00 MEV NEUTRON SOURCE

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0989	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0617	ANGLE 7 MU=0.0458	ANGLE 8 MU=0.0281	ANGLE 9 MU=0.0095
8.00E 00--1.00E 01	2.648E-05	2.671E-05	2.758E-05	2.914E-05	3.122E-05	3.387E-05	3.733E-05	4.207E-05	4.877E-05
6.50E 00--8.00E 00	1.933E-04	1.952E-04	2.028E-04	2.154E-04	2.319E-04	2.525E-04	2.782E-04	3.138E-04	3.647E-04
5.00E 00--6.50E 00	1.963E-03	1.984E-03	2.060E-03	2.192E-03	2.359E-03	2.557E-03	2.806E-03	3.146E-03	3.631E-03
4.00E 00--5.00E 00	8.694E-04	8.943E-04	9.819E-04	1.117E-03	1.253E-03	1.372E-03	1.491E-03	1.654E-03	1.910E-03
3.00E 00--4.00E 00	9.977E-04	1.021E-03	1.105E-03	1.235E-03	1.369E-03	1.492E-03	1.622E-03	1.801E-03	2.077E-03
2.50E 00--3.00E 00	1.751E-03	1.775E-03	1.863E-03	2.008E-03	2.174E-03	2.357E-03	2.579E-03	2.890E-03	3.343E-03
2.00E 00--2.50E 00	2.403E-03	2.426E-03	2.512E-03	2.659E-03	2.843E-03	3.066E-03	3.359E-03	3.768E-03	4.351E-03
1.66E 00--2.00E 00	2.214E-03	2.221E-03	2.254E-03	2.326E-03	2.448E-03	2.641E-03	2.928E-03	3.333E-03	3.887E-03
1.33E 00--1.66E 00	2.883E-03	2.873E-03	2.851E-03	2.856E-03	2.951E-03	3.182E-03	3.564E-03	4.091E-03	4.775E-03
1.00E 00--1.33E 00	1.406E-03	1.365E-03	1.235E-03	1.080E-03	1.037E-03	1.167E-03	1.449E-03	1.813E-03	2.228E-03
8.00E 01--1.00E 00	1.339E-03	1.331E-03	1.316E-03	1.337E-03	1.448E-03	1.688E-03	1.978E-03	2.375E-03	2.930E-03
6.50E 01--8.00E 01	1.122E-03	1.207E-03	1.510E-03	1.962E-03	2.383E-03	2.706E-03	3.008E-03	3.515E-03	4.521E-03
4.00E 01--6.00E 01	8.069E-03	8.126E-03	8.345E-03	8.751E-03	9.352E-03	1.029E-02	1.178E-02	1.409E-02	1.736E-02
3.00E 01--4.00E 01	1.134E-02	1.140E-02	1.172E-02	1.268E-02	1.463E-02	1.770E-02	2.167E-02	2.602E-02	3.019E-02
2.00E 01--3.00E 01	4.834E-02	4.852E-02	4.918E-02	5.016E-02	5.118E-02	5.266E-02	5.483E-02	5.745E-02	6.051E-02
1.00E 01--2.00E 01	1.185E-01	1.187E-01	1.195E-01	1.212E-01	1.235E-01	1.267E-01	1.308E-01	1.360E-01	1.422E-01
5.00E 02--1.00E 01	2.907E-01	2.910E-01	2.926E-01	2.957E-01	3.002E-01	3.060E-01	3.134E-01	3.222E-01	3.326E-01
2.00E 02--5.00E 02	8.475E-02	8.481E-02	8.503E-02	8.545E-02	8.606E-02	8.686E-02	8.783E-02	8.900E-02	9.032E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.0281	ANGLE 12 MU=0.0458	ANGLE 13 MU=0.0617	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.0856	ANGLE 16 MU=0.0946	ANGLE 17 MU=0.0989	SCALAR FLUX
8.00E 00--1.00E 01	6.419E-05	6.682E-05	6.828E-05	7.228E-05	7.927E-05	8.856E-05	9.946E-05	1.129E-04	1.432E-03
6.50E 00--8.00E 00	4.834E-04	5.026E-04	5.302E-04	5.834E-04	6.464E-04	7.218E-04	8.139E-04	9.257E-04	1.081E-02
5.00E 00--6.50E 00	4.726E-03	4.951E-03	5.251E-03	5.793E-03	6.488E-03	7.388E-03	8.549E-03	9.955E-03	9.935E-02
4.00E 00--5.00E 00	2.498E-03	2.659E-03	2.939E-03	3.239E-03	3.680E-03	4.256E-03	4.989E-03	5.899E-03	5.231E-02
3.00E 00--4.00E 00	2.267E-03	2.339E-03	2.556E-03	2.856E-03	3.256E-03	3.789E-03	4.419E-03	5.219E-03	5.348E-02
2.50E 00--3.00E 00	4.361E-03	4.576E-03	4.955E-03	5.422E-03	6.012E-03	6.789E-03	7.822E-03	9.189E-03	9.018E-02
2.00E 00--2.50E 00	4.842E-03	5.071E-03	5.469E-03	6.012E-03	6.789E-03	7.822E-03	9.189E-03	1.081E-02	1.128E-01
1.66E 00--2.00E 00	5.071E-03	5.369E-03	5.842E-03	6.488E-03	7.388E-03	8.549E-03	9.955E-03	1.129E-02	1.061E-01
1.33E 00--1.66E 00	6.212E-03	6.600E-03	7.195E-03	8.012E-03	9.189E-03	1.081E-02	1.292E-02	1.529E-02	1.292E-01
1.00E 00--1.33E 00	3.679E-03	3.902E-03	4.256E-03	4.789E-03	5.419E-03	6.219E-03	7.257E-03	8.549E-03	7.045E-02
8.00E 01--1.00E 00	5.883E-03	6.000E-03	6.212E-03	6.595E-03	7.195E-03	8.012E-03	9.189E-03	1.081E-02	1.186E-01
6.00E 01--8.00E 01	2.125E-02	2.268E-02	2.448E-02	2.688E-02	3.012E-02	3.419E-02	3.955E-02	4.542E-02	3.045E-01
4.00E 01--6.00E 01	3.364E-02	3.748E-02	4.076E-02	4.565E-02	5.146E-02	5.933E-02	6.836E-02	7.833E-02	4.162E-01
3.00E 01--4.00E 01	5.698E-02	6.112E-02	6.516E-02	7.158E-02	7.863E-02	8.816E-02	9.937E-02	1.120E-01	7.769E-01
2.00E 01--3.00E 01	1.497E-01	1.586E-01	1.688E-01	1.805E-01	1.932E-01	2.088E-01	2.203E-01	2.314E-01	1.930E 00
1.00E 01--2.00E 01	3.444E-01	3.577E-01	3.719E-01	3.869E-01	4.019E-01	4.181E-01	4.281E-01	4.360E-01	4.347E 00
5.00E 02--1.00E 01	9.179E-02	9.338E-02	9.501E-02	9.665E-02	9.820E-02	9.956E-02	1.006E-01	1.013E-01	1.152E 00

8.167 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950	
6.50E 00---8.00E 00	2.239E-05	2.266E-05	2.365E-05	2.736E-05	2.973E-05	3.270E-05	3.685E-05	4.292E-05	
5.00E 00---6.50E 00	1.532E-04	1.548E-04	1.632E-04	1.931E-04	2.135E-04	2.316E-04	2.613E-04	3.059E-04	
4.00E 00---5.00E 00	1.637E-03	1.662E-03	1.754E-03	2.069E-03	2.247E-03	2.458E-03	2.755E-03	3.202E-03	
3.00E 00---4.00E 00	6.512E-04	6.866E-04	8.098E-04	1.145E-03	1.251E-03	1.332E-03	1.457E-03	1.698E-03	
2.50E 00---3.00E 00	8.145E-04	8.488E-04	9.682E-04	1.142E-03	1.298E-03	1.510E-03	1.663E-03	1.938E-03	
2.00E 00---2.50E 00	1.432E-03	1.463E-03	1.575E-03	1.742E-03	1.918E-03	2.259E-03	2.531E-03	2.960E-03	
1.66E 00---2.00E 00	2.087E-03	2.113E-03	2.208E-03	2.361E-03	2.536E-03	2.997E-03	3.381E-03	3.948E-03	
1.33E 00---1.66E 00	1.971E-03	1.972E-03	2.094E-03	2.223E-03	2.116E-03	2.292E-03	2.980E-03	3.524E-03	
1.00E 00---1.33E 00	2.648E-03	2.621E-03	2.539E-03	2.623E-03	2.510E-03	2.736E-03	3.694E-03	4.360E-03	
8.00E-01---1.00E 00	1.509E-03	1.445E-03	1.240E-03	1.004E-03	9.384E-04	1.121E-03	1.946E-03	2.404E-03	
6.00E-01---8.00E-01	1.306E-03	1.265E-03	1.275E-03	1.304E-03	1.446E-03	1.717E-03	2.080E-03	3.174E-03	
4.00E-01---6.00E-01	8.783E-04	1.001E-03	1.431E-03	2.044E-03	2.554E-03	3.137E-03	3.718E-03	5.085E-03	
3.00E-01---4.00E-01	8.658E-03	8.723E-03	8.975E-03	9.435E-03	1.014E-02	1.131E-02	1.650E-02	2.106E-02	
2.00E-01---3.00E-01	1.257E-02	1.264E-02	1.311E-02	1.439E-02	1.732E-02	2.175E-02	3.331E-02	3.877E-02	
1.00E-01---2.00E-01	6.055E-02	6.079E-02	6.165E-02	6.298E-02	6.421E-02	6.520E-02	6.800E-02	6.874E-02	
5.00E-02---1.00E-01	1.595E-01	1.598E-01	1.613E-01	1.635E-01	1.670E-01	1.718E-01	1.779E-01	1.856E-01	
2.00E-02---5.00E-02	4.279E-01	4.286E-01	4.313E-01	4.365E-01	4.440E-01	4.541E-01	4.666E-01	4.819E-01	
	1.284E-01	1.285E-01	1.296E-01	1.296E-01	1.306E-01	1.320E-01	1.337E-01	1.357E-01	

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	5.069E-05	6.598E-05	8.387E-05	1.131E-04	1.760E-04	3.045E-04	6.442E-04	1.810E-03	1.423E-03
5.00E 00---6.50E 00	3.634E-04	4.786E-04	6.111E-04	8.670E-04	1.300E-03	2.273E-03	4.821E-03	1.340E-02	1.045E-02
4.00E 00---5.00E 00	3.782E-03	4.894E-03	6.717E-03	8.550E-03	1.248E-02	2.095E-02	4.200E-02	1.124E-01	9.805E-02
3.00E 00---4.00E 00	2.053E-03	2.691E-03	3.390E-03	4.651E-03	6.847E-03	1.177E-02	2.372E-02	5.959E-02	5.356E-02
2.50E 00---3.00E 00	2.417E-03	2.930E-03	3.841E-03	5.095E-03	7.618E-03	1.272E-02	2.448E-02	5.505E-02	5.702E-02
2.00E 00---2.50E 00	3.513E-03	4.558E-03	5.732E-03	7.995E-03	1.188E-02	2.011E-02	3.874E-02	9.192E-02	8.937E-02
1.66E 00---2.00E 00	4.673E-03	5.789E-03	7.688E-03	1.038E-02	1.567E-02	2.574E-02	4.804E-02	1.064E-01	1.139E-01
1.33E 00---1.66E 00	4.160E-03	5.418E-03	7.304E-03	1.019E-02	1.562E-02	2.612E-02	4.724E-02	9.933E-02	1.079E-01
1.00E 00---1.33E 00	5.108E-03	6.681E-03	8.810E-03	1.306E-02	2.000E-02	3.248E-02	5.588E-02	1.109E-01	1.315E-01
8.00E-01---1.00E 00	2.978E-03	4.260E-03	6.555E-03	1.075E-02	1.716E-02	2.635E-02	3.892E-02	5.621E-02	8.935E-02
6.00E-01---8.00E-01	4.385E-03	6.472E-03	1.018E-02	1.555E-02	2.275E-02	3.123E-02	4.083E-02	5.142E-02	1.125E-01
4.00E-01---6.00E-01	7.738E-03	1.142E-02	1.669E-02	2.260E-02	2.939E-02	3.946E-02	4.444E-02	5.366E-02	1.529E-01
3.00E-01---4.00E-01	2.694E-02	3.337E-02	4.343E-02	5.719E-02	7.519E-02	9.683E-02	7.840E-02	9.718E-02	3.744E-01
2.00E-01---3.00E-01	4.343E-02	4.734E-02	5.186E-02	6.761E-02	8.555E-02	7.533E-02	8.661E-02	9.823E-02	5.257E-01
1.00E-01---2.00E-01	7.184E-02	7.609E-02	8.236E-02	8.588E-02	9.929E-02	1.103E-01	1.235E-01	1.381E-01	9.729E-01
5.00E-02---1.00E-01	2.063E-01	2.197E-01	2.351E-01	2.525E-01	2.716E-01	2.915E-01	3.109E-01	3.264E-01	2.664E 00
2.00E-02---5.00E-02	5.206E-01	5.433E-01	5.591E-01	5.958E-01	6.227E-01	6.481E-01	6.666E-01	6.838E-01	6.584E 00
	1.403E-01	1.433E-01	1.461E-01	1.490E-01	1.517E-01	1.541E-01	1.559E-01	1.570E-01	1.764E 00

## 4 PI R\*2 FLUENCE AT 400.0 METERS

## 8.187 TO 10.00 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.800E-05	1.828E-05	1.933E-05	2.095E-05	2.280E-05	2.477E-05	2.713E-05	3.050E-05	3.564E-05
6.50E 00---8.00E 00	1.119E-04	1.144E-04	1.235E-04	1.368E-04	1.509E-04	1.644E-04	1.797E-04	2.021E-04	2.381E-04
5.00E 00---6.50E 00	1.260E-03	1.287E-03	1.383E-03	1.531E-03	1.682E-03	1.824E-03	1.983E-03	2.217E-03	2.592E-03
4.00E 00---5.00E 00	4.281E-04	4.694E-04	6.115E-04	8.091E-04	9.641E-04	1.042E-03	1.078E-03	1.158E-03	1.366E-03
3.00E 00---4.00E 00	5.894E-04	6.296E-04	7.688E-04	9.625E-04	1.117E-03	1.203E-03	1.259E-03	1.371E-03	1.619E-03
2.50E 00---3.00E 00	1.068E-03	1.102E-03	1.400E-03	1.566E-03	1.756E-03	1.676E-03	1.803E-03	2.017E-03	2.389E-03
2.00E 00---2.50E 00	1.661E-03	1.685E-03	1.775E-03	1.912E-03	2.058E-03	2.216E-03	2.427E-03	2.755E-03	3.252E-03
1.66E 00---2.00E 00	1.624E-03	1.618E-03	1.604E-03	1.605E-03	1.653E-03	1.812E-03	2.070E-03	2.438E-03	2.914E-03
1.33E 00---1.66E 00	2.244E-03	2.204E-03	2.045E-03	1.936E-03	1.937E-03	2.147E-03	2.547E-03	3.059E-03	3.630E-03
1.00E 00---1.33E 00	1.408E-03	1.334E-03	1.091E-03	8.115E-04	7.428E-04	9.520E-04	1.362E-03	1.808E-03	2.221E-03
8.00E 01---1.00E 01	1.097E-03	1.088E-03	1.074E-03	1.113E-03	1.271E-03	1.545E-03	1.888E-03	2.298E-03	2.938E-03
6.00E 01---8.00E 01	5.536E-04	6.938E-04	1.185E-03	1.857E-03	2.365E-03	2.618E-03	2.805E-03	3.390E-03	4.942E-03
4.00E 01---6.00E 01	8.098E-03	8.157E-03	8.391E-03	8.825E-03	9.528E-03	1.078E-02	1.300E-02	1.661E-02	2.175E-02
3.00E 01---4.00E 01	1.196E-02	1.205E-02	1.261E-02	1.425E-02	1.754E-02	2.260E-02	2.889E-02	3.538E-02	4.110E-02
2.00E 01---3.00E 01	6.352E-02	6.377E-02	6.469E-02	6.602E-02	6.722E-02	6.807E-02	6.869E-02	6.954E-02	7.125E-02
1.00E 01---2.00E 01	1.727E-01	1.731E-01	1.745E-01	1.773E-01	1.814E-01	1.859E-01	1.939E-01	2.027E-01	2.135E-01
5.00E 02---1.00E 01	4.906E-01	4.914E-01	4.948E-01	5.012E-01	5.105E-01	5.229E-01	5.385E-01	5.575E-01	5.800E-01
2.00E 02---5.00E 02	1.497E-01	1.498E-01	1.503E-01	1.512E-01	1.525E-01	1.541E-01	1.562E-01	1.587E-01	1.615E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	4.343E-05	5.469E-05	7.204E-05	1.004E-04	1.537E-04	2.712E-04	6.046E-04	1.912E-03	1.301E-03
6.50E 00---8.00E 00	2.943E-04	3.756E-04	5.009E-04	7.060E-04	1.097E-03	1.968E-03	4.439E-03	1.393E-02	9.255E-03
5.00E 00---6.50E 00	3.171E-03	3.926E-03	5.235E-03	7.200E-03	1.084E-02	1.863E-02	3.931E-02	1.154E-01	8.782E-02
4.00E 00---5.00E 00	1.737E-03	2.246E-03	2.922E-03	3.974E-03	6.071E-03	1.090E-02	2.332E-02	6.283E-02	4.924E-02
3.00E 00---4.00E 00	2.026E-03	2.595E-03	3.345E-03	4.568E-03	6.989E-03	1.233E-02	2.489E-02	5.913E-02	5.373E-02
2.50E 00---3.00E 00	2.958E-03	3.730E-03	4.877E-03	6.798E-03	1.058E-02	1.855E-02	3.713E-02	9.153E-02	8.026E-02
2.00E 00---2.50E 00	3.950E-03	4.944E-03	6.470E-03	9.123E-03	1.413E-02	2.420E-02	4.613E-02	1.050E-01	1.028E-01
1.66E 00---2.00E 00	3.550E-03	4.472E-03	6.097E-03	9.075E-03	1.469E-02	2.523E-02	4.632E-02	9.760E-02	9.905E-02
1.33E 00---1.66E 00	4.362E-03	5.531E-03	7.782E-03	1.190E-02	1.916E-02	3.158E-02	5.429E-02	1.060E-01	1.206E-01
1.00E 00---1.33E 00	2.804E-03	4.038E-03	6.735E-03	1.151E-02	1.889E-02	2.914E-02	4.289E-02	6.163E-02	9.426E-02
8.00E 01---1.00E 01	4.199E-03	6.670E-03	1.088E-02	1.713E-02	2.522E-02	3.459E-02	4.468E-02	5.549E-02	1.196E-01
6.00E 01---8.00E 01	7.892E-03	1.243E-02	1.827E-02	2.505E-02	3.228E-02	3.978E-02	4.770E-02	5.645E-02	1.628E-01
4.00E 01---6.00E 01	2.817E-02	3.533E-02	4.255E-02	4.967E-02	5.720E-02	6.652E-02	7.942E-02	9.695E-02	3.845E-01
3.00E 01---4.00E 01	4.565E-02	4.956E-02	5.392E-02	5.993E-02	6.808E-02	7.803E-02	8.869E-02	9.889E-02	5.471E-01
2.00E 01---3.00E 01	7.433E-02	7.911E-02	8.546E-02	9.335E-02	1.026E-01	1.133E-01	1.254E-01	1.378E-01	1.008E 00
1.00E 01---2.00E 01	2.264E-01	2.416E-01	2.595E-01	2.785E-01	2.998E-01	3.216E-01	3.421E-01	3.578E-01	2.920E 00
5.00E 02---1.00E 01	6.059E-01	6.350E-01	6.667E-01	7.002E-01	7.399E-01	7.656E-01	7.920E-01	8.092E-01	7.668E 00
2.00E 02---5.00E 02	1.647E-01	1.681E-01	1.717E-01	1.752E-01	1.785E-01	1.814E-01	1.836E-01	1.849E-01	2.067E 00

8.187 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MJ=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	1.413E-05	1.440E-05	1.541E-05	1.696E-05	1.859E-05	2.015E-05	2.195E-05	2.460E-05	2.884E-05
5.00E 00---6.50E 00	9.282E-05	9.544E-05	1.048E-03	1.185E-03	1.315E-03	1.421E-03	1.505E-03	1.570E-03	1.785E-03
4.00E 00---5.00E 00	2.478E-04	2.910E-04	4.384E-04	6.361E-04	7.768E-04	9.704E-04	8.249E-04	8.676E-04	1.041E-03
3.00E 00---4.00E 00	3.903E-04	4.325E-04	5.776E-04	7.731E-04	9.142E-04	1.288E-03	9.874E-04	1.061E-03	1.274E-03
2.50E 00---3.00E 00	7.512E-04	7.861E-04	9.073E-04	1.074E-03	1.208E-03	1.288E-03	1.367E-03	1.525E-03	1.832E-03
2.00E 00---2.50E 00	1.261E-03	1.282E-03	1.359E-03	1.472E-03	1.584E-03	1.701E-03	1.864E-03	2.129E-03	2.540E-03
1.66E 00---2.00E 00	1.288E-03	1.277E-03	1.241E-03	1.210E-03	1.237E-03	1.359E-03	1.587E-03	1.904E-03	2.292E-03
1.33E 00---1.66E 00	1.828E-03	1.770E-03	1.619E-03	1.441E-03	1.412E-03	1.601E-03	1.973E-03	2.420E-03	2.871E-03
1.00E 00---1.33E 00	1.227E-03	1.150E-03	8.961E-04	6.129E-04	5.442E-04	7.579E-04	1.155E-03	1.554E-03	1.884E-03
8.00E 01---1.00E 01	8.479E-04	8.422E-04	8.390E-04	8.916E-04	1.048E-03	1.295E-03	1.582E-03	1.921E-03	2.501E-03
6.00E 01---8.00E 01	2.627E-04	4.078E-04	9.096E-04	1.571E-03	2.031E-03	2.207E-03	2.313E-03	2.862E-03	4.458E-03
4.00E 01---6.00E 01	7.065E-04	7.113E-03	7.305E-03	7.674E-03	8.319E-03	9.544E-03	1.178E-02	1.543E-02	2.060E-02
3.00E 01---4.00E 01	1.052E-02	1.062E-02	1.123E-02	1.295E-02	1.634E-02	2.147E-02	2.722E-02	3.402E-02	3.936E-02
2.00E 01---3.00E 01	6.065E-02	6.089E-02	6.174E-02	6.293E-02	6.393E-02	6.454E-02	6.490E-02	6.550E-02	6.699E-02
1.00E 01---2.00E 01	1.665E-01	1.673E-01	1.687E-01	1.715E-01	1.756E-01	1.810E-01	1.880E-01	1.968E-01	2.074E-01
5.00E 02---1.00E 01	4.919E-01	4.927E-01	4.962E-01	5.030E-01	5.127E-01	5.257E-01	5.420E-01	5.620E-01	5.855E-01
2.00E 02---5.00E 02	1.516E-01	1.517E-01	1.522E-01	1.532E-01	1.545E-01	1.562E-01	1.584E-01	1.610E-01	1.639E-01

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.140E-03
6.50E 00---8.00E 00	3.535E-05	4.403E-05	5.931E-05	8.312E-05	1.287E-04	2.323E-04	3.379E-04	1.861E-03	7.824E-03
5.00E 00---6.50E 00	2.231E-04	2.894E-04	3.895E-04	5.542E-04	8.790E-04	1.533E-03	3.863E-03	1.332E-02	7.462E-02
4.00E 00---5.00E 00	2.482E-03	3.172E-03	4.177E-03	5.804E-03	8.891E-03	1.575E-02	3.461E-02	1.090E-01	4.278E-02
3.00E 00---4.00E 00	1.368E-03	1.813E-03	2.366E-03	3.222E-03	5.048E-03	9.539E-03	2.148E-02	5.790E-02	6.084E-02
2.50E 00---3.00E 00	1.643E-03	2.134E-03	2.766E-03	3.803E-03	6.019E-03	1.117E-02	2.355E-02	8.413E-02	4.757E-02
2.00E 00---2.50E 00	2.307E-03	2.954E-03	3.880E-03	5.513E-03	8.891E-03	1.629E-02	3.354E-02	8.413E-02	6.828E-02
1.66E 00---2.00E 00	3.124E-03	3.938E-03	5.208E-03	7.521E-03	1.211E-02	2.147E-02	4.246E-02	9.536E-02	8.765E-02
1.33E 00---1.66E 00	3.417E-03	4.402E-03	6.432E-03	1.035E-02	1.727E-02	2.891E-02	4.246E-02	8.826E-02	8.577E-02
1.00E 00---1.33E 00	2.374E-03	3.593E-03	6.510E-03	1.122E-02	1.871E-02	2.888E-02	4.204E-02	5.948E-02	1.044E-01
8.00E 01---1.00E 01	3.755E-03	6.278E-03	1.062E-02	1.699E-02	2.507E-02	3.414E-02	4.344E-02	5.289E-02	9.001E-02
6.00E 01---8.00E 01	7.542E-03	1.219E-02	1.812E-02	2.481E-02	3.175E-02	3.867E-02	4.569E-02	5.321E-02	1.149E-01
4.00E 01---6.00E 01	2.697E-02	3.386E-02	4.062E-02	4.701E-02	5.360E-02	6.168E-02	7.274E-02	8.711E-02	1.566E-01
3.00E 01---4.00E 01	4.341E-02	4.677E-02	5.065E-02	5.618E-02	6.374E-02	7.266E-02	8.165E-02	8.941E-02	3.594E-01
2.00E 01---3.00E 01	6.986E-02	7.430E-02	8.022E-02	8.739E-02	9.565E-02	1.049E-01	1.149E-01	1.244E-01	5.148E-01
1.00E 01---2.00E 01	2.202E-01	2.352E-01	2.523E-01	2.713E-01	2.917E-01	3.104E-01	3.310E-01	3.448E-01	9.464E-01
5.00E 02---1.00E 01	6.127E-01	6.432E-01	6.765E-01	7.115E-01	7.466E-01	7.793E-01	8.063E-01	8.237E-01	2.836E 00
2.00E 02---5.00E 02	1.672E-01	1.708E-01	1.745E-01	1.781E-01	1.815E-01	1.845E-01	1.867E-01	1.881E-01	7.754E 00
									2.098E 00

8.187 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 600.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0094	ANGLE 3 MU=0.0446	ANGLE 4 MU=0.0656	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0617	ANGLE 7 MU=0.0458	ANGLE 8 MU=0.0281	ANGLE 9 MU=0.0090
8.00E 00--1.00E 01	1.091E-05	1.117E-05	1.212E-05	1.354E-05	1.492E-05	1.614E-05	1.747E-05	1.932E-05	2.298E-05
6.50E 00--8.00E 00	5.408E-05	5.634E-05	6.433E-05	7.575E-05	8.560E-05	9.245E-05	9.867E-05	1.075E-04	1.308E-04
5.00E 00--6.50E 00	6.632E-04	6.877E-04	7.740E-04	8.975E-04	1.004E-03	1.080E-03	1.151E-03	1.275E-03	1.511E-03
4.00E 00--5.00E 00	1.168E-04	1.597E-04	3.028E-04	4.876E-04	6.095E-04	6.371E-04	6.106E-04	6.249E-04	7.655E-04
3.00E 00--4.00E 00	2.353E-04	2.768E-04	4.185E-04	6.038E-04	7.259E-04	7.568E-04	7.447E-04	7.878E-04	9.659E-04
2.50E 00--3.00E 00	5.048E-04	5.378E-04	6.516E-04	8.024E-04	9.101E-04	9.604E-04	1.001E-03	1.113E-03	1.361E-03
2.00E 00--2.50E 00	9.295E-04	9.470E-04	1.009E-03	1.097E-03	1.179E-03	1.262E-03	1.383E-03	1.592E-03	1.921E-03
1.66E 00--2.00E 00	1.002E-03	9.864E-04	9.355E-04	8.817E-04	8.862E-04	9.853E-04	1.182E-03	1.446E-03	1.749E-03
1.33E 00--1.66E 00	1.403E-03	1.403E-03	1.230E-03	1.033E-03	9.874E-04	1.155E-03	1.488E-03	1.864E-03	2.198E-03
1.00E 00--1.33E 00	1.027E-03	9.526E-04	7.073E-04	4.372E-04	3.765E-04	5.801E-04	9.408E-04	1.274E-03	1.515E-03
8.00E 01--1.00E 00	6.173E-04	6.157E-04	6.248E-04	6.873E-04	8.366E-04	1.040E-03	1.262E-03	1.522E-03	2.024E-03
4.00E 01--8.00E 01	3.955E-05	1.856E-04	6.642E-04	1.272E-03	1.672E-03	1.775E-03	1.815E-03	2.304E-03	3.846E-03
4.00E 01--6.00E 01	5.918E-03	5.954E-03	6.098E-03	6.392E-03	6.954E-03	8.088E-03	1.021E-02	1.366E-02	1.850E-02
3.00E 01--4.00E 01	8.827E-03	8.932E-03	9.539E-03	1.122E-02	1.446E-02	1.930E-02	2.509E-02	3.078E-02	3.543E-02
2.00E 01--3.00E 01	5.466E-01	5.486E-02	5.559E-02	5.658E-02	5.734E-02	5.770E-02	5.780E-02	5.815E-02	5.934E-02
1.00E 01--2.00E 01	1.504E-01	1.509E-01	1.523E-01	1.548E-01	1.586E-01	1.636E-01	1.700E-01	1.780E-01	1.877E-01
5.00E 02--1.00E 01	4.546E-01	4.554E-01	4.576E-01	4.651E-01	4.743E-01	4.866E-01	5.021E-01	5.209E-01	5.432E-01
2.00E 02--5.00E 02	1.409E-01	1.410E-01	1.415E-01	1.424E-01	1.436E-01	1.453E-01	1.473E-01	1.498E-01	1.525E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0090	ANGLE 11 MU=0.0281	ANGLE 12 MU=0.0458	ANGLE 13 MU=0.0617	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.0656	ANGLE 16 MU=0.0446	ANGLE 17 MU=0.0281	SCALAR FLUX
8.00E 00--1.00E 01	2.840E-05	3.633E-05	4.811E-05	6.758E-05	1.055E-04	1.942E-04	4.645E-04	1.727E-03	9.751E-04
6.50E 00--8.00E 00	1.660E-04	2.180E-04	2.945E-04	4.231E-04	6.841E-04	1.314E-03	3.255E-03	1.212E-02	6.442E-03
5.00E 00--6.50E 00	1.895E-03	2.448E-03	3.241E-03	4.530E-03	7.054E-03	1.288E-02	2.939E-02	9.813E-02	6.147E-02
4.00E 00--5.00E 00	1.048E-02	1.421E-03	1.851E-03	2.511E-03	4.037E-03	8.047E-03	1.902E-02	5.595E-02	3.595E-02
3.00E 00--4.00E 00	1.287E-03	1.698E-03	2.198E-03	3.034E-03	4.964E-03	9.699E-03	2.129E-02	5.361E-02	4.053E-02
2.50E 00--3.00E 00	1.750E-03	2.262E-03	2.984E-03	4.312E-03	7.230E-03	1.384E-02	2.924E-02	7.376E-02	5.626E-02
2.00E 00--2.50E 00	2.380E-03	3.015E-03	4.033E-03	5.985E-03	1.002E-02	1.839E-02	3.624E-02	8.246E-02	7.220E-02
1.66E 00--2.00E 00	2.115E-03	2.703E-03	3.855E-03	6.332E-03	1.114E-02	2.017E-02	3.732E-02	7.598E-02	7.172E-02
1.33E 00--1.66E 00	2.582E-03	3.365E-03	5.146E-03	8.715E-03	1.502E-02	2.541E-02	4.285E-02	7.848E-02	8.723E-02
1.00E 00--1.33E 00	1.807E-03	3.024E-03	5.617E-03	1.030E-02	1.738E-02	2.674E-02	3.838E-02	5.318E-02	8.089E-02
8.00E 01--1.00E 00	3.199E-03	5.620E-03	9.775E-03	1.580E-02	2.328E-02	3.139E-02	3.929E-02	4.681E-02	1.037E-01
6.00E 01--8.00E 01	6.834E-03	1.129E-02	1.885E-02	2.294E-02	2.910E-02	3.503E-02	4.080E-02	4.665E-02	1.414E-01
4.00E 01--6.00E 01	2.437E-02	3.058E-02	3.646E-02	4.183E-02	4.723E-02	5.383E-02	6.276E-02	7.384E-02	3.175E-01
3.00E 01--4.00E 01	3.879E-02	4.150E-02	4.474E-02	4.952E-02	5.606E-02	6.355E-02	7.061E-02	7.610E-02	4.560E-01
2.00E 01--3.00E 01	6.181E-02	6.568E-02	7.080E-02	7.690E-02	8.379E-02	9.134E-02	9.919E-02	1.061E-01	8.365E-01
1.00E 01--2.00E 01	1.993E-01	2.128E-01	2.282E-01	2.452E-01	2.631E-01	2.810E-01	2.969E-01	3.081E-01	2.561E 00
5.00E 02--1.00E 01	5.689E-01	5.977E-01	6.290E-01	6.619E-01	6.946E-01	7.249E-01	7.497E-01	7.654E-01	7.197E 00
2.00E 02--5.00E 02	1.556E-01	1.590E-01	1.624E-01	1.658E-01	1.690E-01	1.717E-01	1.738E-01	1.750E-01	1.952E 00



## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 900.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9656	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
4.564E-06	4.758E-06	5.441E-06	6.395E-06	7.175E-06	7.577E-06	7.677E-06	8.124E-06	9.001E-06	1.079E-05
1.456E-05	1.618E-05	2.178E-05	2.917E-05	3.424E-05	3.592E-05	3.592E-05	3.607E-05	3.876E-05	4.776E-05
2.095E-04	2.262E-04	2.843E-04	3.613E-04	4.151E-04	4.358E-04	4.358E-04	4.433E-04	4.805E-04	5.865E-04
-5.491E-05	-1.684E-05	7.103E-05	2.104E-04	2.774E-04	2.655E-04	2.655E-04	2.108E-04	1.903E-04	2.864E-04
1.348E-06	3.277E-05	1.348E-04	2.611E-04	3.334E-04	3.833E-04	3.833E-04	2.723E-04	2.696E-04	3.719E-04
1.133E-04	1.361E-04	2.135E-04	3.077E-04	3.581E-04	3.575E-04	3.575E-04	3.438E-04	3.792E-04	5.014E-04
3.401E-04	3.476E-04	3.733E-04	4.057E-04	4.303E-04	4.551E-04	4.551E-04	5.028E-04	5.975E-04	7.445E-04
4.527E-04	4.340E-04	3.707E-04	2.971E-04	2.743E-04	3.284E-04	3.284E-04	4.477E-04	5.862E-04	7.007E-04
6.962E-04	6.504E-04	4.972E-04	3.235E-04	2.719E-04	3.813E-04	3.813E-04	5.940E-04	7.858E-04	8.793E-04
1.00E 00---1.33E 00	5.321E-04	4.795E-04	3.004E-04	1.43E-04	9.208E-05	2.363E-04	4.475E-04	5.965E-04	6.523E-04
8.00E-01---1.00E 01	1.739E-04	1.805E-04	2.120E-04	2.803E-04	3.764E-04	4.707E-04	5.380E-04	6.241E-04	9.094E-04
6.00E-01---8.00E-01	-2.271E-04	-1.168E-04	1.821E-04	6.188E-04	8.051E-04	7.875E-04	7.280E-04	1.044E-03	2.154E-03
4.00E-01---6.00E-01	3.070E-03	3.077E-03	3.114E-03	3.228E-03	3.544E-03	4.289E-03	5.732E-03	8.057E-03	1.121E-02
3.00E-01---4.00E-01	4.486E-03	4.572E-03	5.544E-03	6.259E-03	6.488E-03	1.168E-02	1.531E-02	1.867E-02	2.113E-02
2.00E-01---3.00E-01	3.308E-02	3.319E-02	3.354E-02	3.396E-02	3.415E-02	3.402E-02	3.372E-02	3.360E-02	3.406E-02
1.00E-01---2.00E-01	8.891E-02	8.911E-02	8.995E-02	9.153E-02	9.378E-02	9.680E-02	1.006E-01	1.053E-01	1.110E-01
5.00E-02---1.00E-01	2.774E-01	2.779E-01	2.803E-01	2.840E-01	2.897E-01	2.973E-01	3.069E-01	3.186E-01	3.323E-01
2.00E-02---5.00E-02	8.641E-02	8.648E-02	8.677E-02	8.731E-02	8.808E-02	8.909E-02	9.034E-02	9.182E-02	9.350E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
4.564E-06	1.378E-05	1.807E-05	2.415E-05	3.411E-05	5.446E-05	1.055E-04	2.729E-04	1.187E-03	5.612E-04
1.456E-05	5.442E-05	6.788E-05	1.193E-04	1.720E-04	2.919E-04	6.241E-04	1.759E-03	7.835E-03	3.321E-03
2.095E-04	7.739E-04	1.033E-03	1.374E-03	1.928E-03	3.135E-03	6.276E-03	1.598E-02	6.106E-02	3.107E-02
4.00E 00---5.00E 00	4.352E-04	6.292E-04	7.924E-04	1.026E-03	1.789E-03	4.262E-03	1.155E-02	3.669E-02	1.915E-02
3.00E 00---4.00E 00	5.611E-04	7.692E-04	9.651E-04	1.318E-03	2.407E-03	5.521E-03	1.349E-02	3.534E-02	2.213E-02
2.50E 00---3.00E 00	6.939E-04	9.140E-04	1.197E-03	1.819E-03	3.484E-03	7.612E-03	1.718E-02	4.274E-02	2.845E-02
2.00E 00---2.50E 00	8.056E-04	1.030E-03	1.659E-03	2.681E-03	5.092E-03	1.026E-02	2.089E-02	4.565E-02	3.613E-02
1.66E 00---1.66E 00	9.554E-04	1.303E-03	2.379E-03	3.167E-03	6.239E-03	1.189E-02	2.187E-02	4.137E-02	3.739E-02
1.33E 00---1.33E 00	8.190E-04	1.547E-03	3.367E-03	4.695E-03	8.724E-03	1.495E-02	2.427E-02	4.008E-02	4.533E-02
8.00E-01---1.00E 00	1.717E-03	3.424E-03	6.285E-03	6.626E-03	1.128E-02	1.693E-02	2.311E-02	2.984E-02	4.814E-02
6.00E-01---8.00E-01	4.278E-03	7.311E-03	1.087E-02	1.448E-02	1.484E-02	1.931E-02	2.298E-02	2.571E-02	6.221E-02
4.00E-01---6.00E-01	1.484E-02	1.844E-02	2.154E-02	2.408E-02	1.777E-02	2.366E-02	2.320E-02	2.543E-02	8.465E-02
3.00E-01---4.00E-01	2.266E-02	2.378E-02	2.532E-02	2.787E-02	3.135E-02	2.951E-02	3.359E-02	3.804E-02	1.815E-01
2.00E-01---3.00E-01	3.532E-02	3.737E-02	4.004E-02	4.308E-02	4.636E-02	4.979E-02	5.314E-02	5.937E-02	2.613E-01
1.00E-01---2.00E-01	1.177E-01	1.254E-01	1.404E-01	1.434E-01	1.529E-01	1.621E-01	1.699E-01	1.749E-01	4.771E-01
5.00E-02---1.00E-01	3.479E-01	3.654E-01	3.842E-01	4.037E-01	4.228E-01	4.402E-01	4.541E-01	4.626E-01	1.504E 00
2.00E-02---5.00E-02	9.536E-02	9.735E-02	9.938E-02	1.014E-01	1.032E-01	1.048E-01	1.060E-01	1.067E-01	1.196E 00

8.187 TO 10.00 MEV NEUTRON SOURCE

4 P1 R\*2 FLUENCE AT 1200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.607E-06	1.731E-06	2.165E-06	2.737E-06	3.136E-06	3.293E-06	3.363E-06	3.678E-06	4.542E-06
6.50E 00---8.00E 00	2.120E-06	3.165E-06	6.608E-06	1.088E-05	1.342E-05	1.345E-05	1.213E-05	1.225E-05	1.612E-05
5.00E 00---6.50E 00	5.010E-05	6.001E-05	9.400E-05	1.367E-05	1.617E-05	1.634E-05	1.546E-05	1.620E-05	2.080E-05
4.00E 00---5.00E 00	-7.010E-05	-4.831E-05	6.726E-05	8.937E-05	1.184E-04	1.007E-04	7.222E-05	4.457E-05	8.847E-05
3.00E 00---4.00E 00	-4.892E-05	-2.651E-05	2.917E-05	1.117E-05	1.419E-05	1.241E-05	8.339E-05	7.300E-05	1.275E-05
2.50E 00---3.00E 00	1.653E-05	1.533E-05	6.047E-05	1.114E-05	1.340E-05	1.216E-05	1.007E-05	1.109E-05	1.709E-05
2.00E 00---2.50E 00	1.183E-04	1.206E-04	1.280E-04	1.356E-04	1.395E-04	1.456E-04	1.654E-04	2.071E-04	2.663E-04
1.66E 00---2.00E 00	2.049E-04	1.904E-04	8.290E-05	8.290E-05	6.191E-05	9.425E-05	1.634E-04	2.291E-04	2.592E-04
1.33E 00---1.66E 00	3.246E-04	2.942E-04	1.901E-04	6.382E-05	5.718E-05	1.060E-04	2.304E-04	3.174E-04	3.183E-04
1.00E 00---1.33E 00	2.528E-04	2.221E-04	1.033E-04	1.538E-05	1.514E-05	1.060E-04	1.956E-04	2.502E-04	2.376E-04
8.00E-01---1.00E 00	1.520E-05	2.353E-05	5.477E-05	1.068E-04	1.608E-04	1.930E-04	1.954E-04	2.115E-04	3.623E-04
6.00E-01---8.00E-01	-2.117E-04	-1.481E-04	2.891E-05	2.735E-04	3.534E-04	3.102E-04	2.453E-04	4.264E-04	1.092E-03
4.00E-01---6.00E-01	1.462E-03	1.458E-03	1.453E-03	1.483E-03	1.542E-03	2.062E-03	2.889E-03	4.197E-03	5.912E-03
3.00E-01---4.00E-01	2.048E-03	2.104E-03	2.395E-03	3.119E-03	4.389E-03	6.145E-03	8.071E-03	9.746E-03	1.086E-02
2.00E-01---3.00E-01	1.734E-02	1.738E-02	1.753E-02	1.765E-02	1.762E-02	1.740E-02	1.708E-02	1.687E-02	1.699E-02
1.00E-01---2.00E-01	4.497E-02	4.507E-02	4.551E-02	4.631E-02	4.746E-02	4.897E-02	5.087E-02	5.321E-02	5.598E-02
5.00E-02---1.00E-01	1.414E-01	1.416E-01	1.427E-01	1.447E-01	1.476E-01	1.514E-01	1.562E-01	1.620E-01	1.688E-01
2.00E-02---5.00E-02	4.392E-02	4.396E-02	4.410E-02	4.437E-02	4.475E-02	4.526E-02	4.587E-02	4.660E-02	4.743E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	6.071E-06	8.213E-06	1.110E-05	1.582E-05	2.914E-05	5.381E-05	1.495E-04	7.280E-04	3.002E-04
6.50E 00---8.00E 00	2.400E-05	3.420E-05	4.576E-05	6.429E-05	1.142E-04	2.747E-04	8.783E-04	4.506E-03	1.622E-03
5.00E 00---6.50E 00	2.951E-04	4.068E-04	5.351E-04	7.393E-04	1.254E-03	2.786E-03	7.905E-03	3.357E-02	1.456E-02
4.00E 00---5.00E 00	1.765E-04	2.698E-04	3.069E-04	3.561E-04	6.503E-04	2.050E-03	6.294E-03	2.099E-02	9.431E-03
3.00E 00---4.00E 00	2.306E-04	3.243E-04	3.763E-04	4.889E-04	1.034E-03	2.823E-03	7.532E-03	2.005E-02	1.100E-02
2.50E 00---3.00E 00	2.597E-04	3.403E-04	4.269E-04	6.873E-04	1.555E-03	3.863E-03	9.161E-03	2.208E-02	1.343E-02
2.00E 00---2.50E 00	3.308E-04	4.099E-04	5.905E-04	1.107E-03	2.407E-03	5.233E-03	1.083E-02	2.250E-02	1.675E-02
1.66E 00---2.00E 00	2.644E-04	3.325E-04	6.477E-04	1.488E-03	3.211E-03	6.279E-03	1.135E-02	1.999E-02	1.792E-02
1.33E 00---1.66E 00	2.945E-04	4.395E-04	1.036E-03	2.361E-03	4.593E-03	7.820E-03	1.217E-02	1.836E-02	2.163E-02
1.00E 00---1.33E 00	3.001E-04	7.186E-04	1.794E-03	3.670E-03	6.207E-03	9.012E-03	1.167E-02	1.406E-02	2.470E-02
8.00E-01---1.00E 00	8.401E-04	1.843E-03	3.499E-03	5.613E-03	7.931E-03	9.951E-03	1.129E-02	1.197E-02	3.198E-02
6.00E-01---8.00E-01	2.336E-03	4.035E-03	5.910E-03	7.658E-03	9.104E-03	1.026E-02	1.121E-02	1.199E-02	4.355E-02
4.00E-01---6.00E-01	7.802E-03	9.555E-03	1.094E-02	1.195E-02	1.288E-02	1.413E-02	1.586E-02	1.761E-02	9.070E-02
3.00E-01---4.00E-01	1.142E-02	1.179E-02	1.246E-02	1.364E-02	1.526E-02	1.680E-02	1.780E-02	1.817E-02	1.903E-01
2.00E-01---3.00E-01	1.754E-02	1.849E-02	1.969E-02	2.101E-02	2.239E-02	2.381E-02	2.517E-02	2.617E-02	2.371E-01
1.00E-01---2.00E-01	5.923E-02	6.293E-02	6.700E-02	7.133E-02	7.569E-02	7.975E-02	8.309E-02	8.519E-02	7.531E-01
5.00E-02---1.00E-01	1.765E-01	1.850E-01	1.941E-01	2.034E-01	2.124E-01	2.205E-01	2.268E-01	2.307E-01	2.223E 00
2.00E-02---5.00E-02	4.833E-02	4.930E-02	5.028E-02	5.123E-02	5.211E-02	5.285E-02	5.341E-02	5.374E-02	6.037E-01

8.187 TO 10.00 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.01950
8.00E 00--1.00E 01	4.315E-07	5.065E-07	7.644E-07	1.088E-06	1.282E-06	1.305E-06	1.253E-06	1.345E-06	1.726E-06
6.50E 00--8.00E 00	8.921E-07	2.017E-07	1.553E-06	4.170E-06	5.272E-06	4.889E-06	3.699E-06	3.300E-06	5.070E-06
5.00E 00--6.50E 00	3.928E-06	9.600E-06	2.786E-05	4.938E-05	6.173E-05	5.879E-05	4.912E-05	4.869E-05	6.891E-05
4.00E 00--5.00E 00	4.931E-05	3.787E-05	1.292E-09	2.870E-05	5.486E-05	3.786E-05	3.946E-06	2.569E-06	2.310E-05
3.00E 00--4.00E 00	4.169E-05	2.954E-05	2.323E-06	4.658E-05	5.820E-05	4.497E-05	1.358E-05	1.649E-05	4.226E-05
2.50E 00--3.00E 00	1.590E-05	7.876E-06	1.323E-05	4.861E-05	3.909E-05	3.909E-05	2.800E-05	2.773E-05	5.641E-05
2.00E 00--2.50E 00	4.180E-05	4.212E-05	4.281E-05	4.243E-05	4.103E-05	4.238E-05	5.155E-05	7.021E-05	9.263E-05
1.66E 00--2.00E 00	9.498E-05	8.576E-05	5.284E-05	1.407E-05	6.467E-06	2.300E-05	5.979E-05	9.089E-05	9.305E-05
1.33E 00--1.66E 00	1.514E-04	1.337E-04	6.439E-05	7.180E-06	-4.429E-06	2.760E-05	9.083E-05	1.273E-04	1.080E-04
1.00E 00--1.33E 00	1.158E-04	7.962E-05	3.880E-05	-7.105E-06	-7.448E-06	2.707E-05	8.303E-05	9.840E-05	7.596E-05
8.00E-01--1.33E 00	2.089E-05	-1.438E-05	6.773E-06	4.176E-05	6.744E-05	7.644E-05	6.337E-05	5.965E-05	1.373E-04
6.00E-01--8.00E-01	1.377E-04	-1.040E-04	2.068E-06	1.051E-04	1.552E-04	1.093E-04	8.005E-05	1.602E-04	5.378E-04
3.00E-01--6.00E-01	6.736E-04	6.687E-04	6.548E-04	6.576E-04	7.330E-04	9.529E-04	1.388E-03	2.062E-03	2.920E-03
3.00E-01--4.00E-01	8.962E-04	9.287E-04	1.093E-03	1.481E-03	2.142E-03	3.033E-03	3.976E-03	4.750E-03	5.222E-03
2.00E-01--3.00E-01	8.509E-03	8.525E-03	8.575E-03	8.599E-03	8.528E-03	8.353E-03	8.131E-03	7.974E-03	7.988E-03
1.00E-01--2.00E-01	2.131E-02	2.136E-02	2.157E-02	2.195E-02	2.249E-02	2.321E-02	2.409E-02	2.517E-02	2.644E-02
5.00E-02--1.00E-01	6.697E-02	6.709E-02	6.759E-02	6.822E-02	6.986E-02	7.163E-02	7.304E-02	7.651E-02	7.961E-02
2.00E-02--5.00E-02	2.072E-02	2.073E-02	2.080E-02	2.093E-02	2.110E-02	2.133E-02	2.161E-02	2.193E-02	2.232E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.0856	ANGLE 16 MU=0.0946	ANGLE 17 MU=0.0984	SCALAR FLUX
8.00E 00--1.00E 01	2.467E-06	3.457E-06	4.587E-06	6.716E-06	1.166E-05	2.619E-05	7.888E-05	4.218E-04	1.540E-04
6.50E 00--8.00E 00	8.852E-06	1.323E-05	1.695E-05	2.233E-05	4.173E-05	1.166E-04	4.238E-04	2.445E-03	7.755E-04
5.00E 00--6.50E 00	1.087E-04	1.549E-04	1.973E-04	2.613E-04	4.658E-04	1.175E-03	3.729E-03	1.732E-02	6.580E-03
4.00E 00--5.00E 00	7.242E-05	1.130E-04	1.140E-04	1.015E-04	2.389E-04	9.432E-04	3.246E-03	1.117E-02	4.482E-03
3.00E 00--4.00E 00	9.464E-05	1.333E-04	1.346E-04	1.566E-04	4.151E-04	1.574E-03	3.939E-03	1.052E-02	5.233E-03
2.50E 00--3.00E 00	9.619E-05	1.220E-04	1.391E-04	2.266E-04	6.774E-04	1.893E-03	5.329E-03	1.079E-02	6.177E-03
2.00E 00--2.50E 00	1.101E-04	1.284E-04	1.976E-04	4.470E-04	1.113E-03	2.563E-03	5.329E-03	1.052E-02	7.559E-03
1.66E 00--2.00E 00	7.414E-05	8.940E-05	2.453E-04	6.889E-04	1.590E-03	3.137E-03	5.536E-03	9.149E-03	8.295E-03
1.33E 00--1.66E 00	7.127E-05	1.326E-04	4.453E-04	1.155E-03	2.302E-03	3.852E-03	5.742E-03	8.035E-03	9.969E-03
1.00E 00--1.33E 00	9.941E-05	3.249E-04	9.058E-04	1.893E-03	3.150E-03	4.421E-03	5.443E-03	6.162E-03	1.186E-02
8.00E-01--1.33E 00	3.983E-04	9.355E-04	1.777E-03	2.835E-03	3.905E-03	4.732E-03	5.149E-03	5.229E-03	1.534E-02
6.00E-01--8.00E-01	1.195E-03	2.058E-03	2.962E-03	3.737E-03	6.313E-03	4.731E-03	5.073E-03	5.348E-03	2.073E-02
4.00E-01--6.00E-01	3.828E-03	4.623E-03	5.195E-03	5.566E-03	5.901E-03	6.404E-03	7.136E-03	7.849E-03	4.274E-02
3.00E-01--4.00E-01	5.404E-03	5.501E-03	5.758E-03	6.298E-03	7.016E-03	7.651E-03	7.984E-03	8.037E-03	6.124E-02
2.00E-01--3.00E-01	8.216E-03	8.626E-03	9.139E-03	9.687E-03	1.024E-02	1.082E-02	1.137E-02	1.177E-02	1.112E-01
1.00E-01--2.00E-01	2.791E-02	2.957E-02	3.138E-02	3.377E-02	3.515E-02	3.688E-02	3.827E-02	3.912E-02	3.536E-01
5.00E-02--1.00E-01	8.311E-02	8.655E-02	9.101E-02	9.514E-02	9.908E-02	1.026E-01	1.053E-01	1.069E-01	1.045E 00
2.00E-02--5.00E-02	2.273E-02	2.316E-02	2.360E-02	2.402E-02	2.441E-02	2.474E-02	2.498E-02	2.513E-02	2.847E-01

## 8.187 TO 10.00 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1800.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9854	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	4.466E-08	8.988E-08	2.352E-07	4.132E-07	5.099E-07	4.903E-07	4.184E-07	4.233E-07	5.996E-07
5.00E 00---6.50E 00	-1.143E-06	-7.695E-07	1.623E-06	1.623E-06	2.086E-06	1.759E-06	7.583E-07	7.896E-07	1.502E-06
4.00E 00---5.00E 00	-5.291E-06	-2.085E-06	6.508E-06	1.874E-05	2.315E-05	2.053E-05	1.414E-05	1.239E-05	2.134E-05
3.00E 00---4.00E 00	-2.928E-05	-2.307E-05	-3.375E-06	1.183E-05	2.459E-05	1.137E-05	-2.289E-06	-4.825E-06	5.906E-06
2.00E 00---3.00E 00	-2.624E-05	-1.999E-05	-1.515E-05	1.515E-05	2.709E-05	1.314E-05	5.482E-07	4.536E-07	1.315E-05
1.50E 00---2.00E 00	-1.279E-05	-8.819E-06	1.857E-06	1.568E-05	1.793E-05	1.027E-05	3.653E-06	6.663E-06	1.912E-05
1.00E 00---1.50E 00	1.573E-05	1.550E-05	1.446E-05	1.636E-05	1.063E-05	1.011E-05	1.571E-05	2.426E-05	3.234E-05
0.50E 00---1.00E 00	4.499E-05	3.968E-05	1.875E-05	3.030E-07	-5.160E-06	3.606E-06	2.323E-05	3.737E-05	3.292E-05
0.00E 00---0.50E 00	7.093E-05	6.141E-05	2.501E-05	-5.655E-06	-1.866E-05	5.346E-06	3.743E-05	5.206E-05	3.500E-05
0.00E 00---0.00E 01	5.230E-05	4.419E-05	1.447E-05	-8.186E-06	-8.055E-06	9.145E-06	3.498E-05	3.729E-05	1.745E-05
0.00E 00---0.00E 01	-2.023E-05	-1.620E-05	-1.765E-06	4.08E-05	3.076E-05	2.895E-05	1.478E-05	1.428E-05	5.070E-05
0.00E 00---0.00E 01	-7.744E-05	-6.043E-05	-5.102E-06	4.165E-05	7.042E-05	3.749E-05	1.677E-05	6.557E-05	2.529E-04
0.00E 00---0.00E 01	3.062E-04	3.026E-04	2.919E-04	2.880E-04	3.232E-04	4.332E-04	6.509E-04	9.825E-04	1.394E-03
0.00E 00---0.00E 01	3.865E-04	4.039E-04	4.903E-04	6.872E-04	1.016E-03	1.448E-03	1.892E-03	2.444E-03	2.432E-03
0.00E 00---0.00E 01	4.039E-03	4.045E-03	4.065E-03	4.055E-03	4.000E-03	3.891E-03	3.761E-03	3.665E-03	3.654E-03
0.00E 00---0.00E 01	9.809E-03	9.832E-03	9.929E-03	1.011E-02	1.035E-02	1.069E-02	1.108E-02	1.156E-02	1.212E-02
0.00E 00---0.00E 01	3.074E-02	3.079E-02	3.102E-02	3.144E-02	3.204E-02	3.283E-02	3.382E-02	3.500E-02	3.637E-02
0.00E 00---0.00E 01	9.468E-03	9.475E-03	9.503E-03	9.560E-03	9.639E-03	9.741E-03	9.866E-03	1.001E-02	1.018E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	9.490E-07	1.383E-06	1.846E-06	2.608E-06	4.823E-06	1.221E-05	4.057E-05	2.362E-04	7.722E-05
5.00E 00---6.50E 00	3.325E-06	5.206E-06	6.136E-06	7.027E-06	1.412E-05	4.847E-05	2.011E-04	1.283E-03	3.683E-04
4.00E 00---5.00E 00	3.956E-05	5.829E-05	6.980E-05	8.460E-05	1.610E-04	4.806E-04	1.713E-03	8.605E-03	2.925E-03
3.00E 00---4.00E 00	3.077E-05	4.872E-05	3.995E-05	1.840E-05	7.329E-05	4.258E-04	1.620E-03	5.881E-03	2.097E-03
2.00E 00---3.00E 00	3.947E-05	5.439E-05	4.412E-05	3.992E-05	1.599E-04	6.529E-04	1.982E-03	5.261E-03	2.438E-03
1.50E 00---2.00E 00	3.630E-05	4.289E-05	4.054E-05	8.101E-05	2.946E-04	9.114E-04	2.281E-03	5.105E-03	2.817E-03
1.00E 00---1.50E 00	3.488E-05	3.557E-05	6.188E-05	1.817E-04	5.136E-04	1.230E-03	2.546E-03	4.786E-03	3.386E-03
0.50E 00---1.00E 00	1.526E-05	1.609E-05	9.298E-05	3.197E-04	7.718E-04	1.518E-03	2.609E-03	4.078E-03	3.784E-03
0.00E 00---0.50E 00	5.244E-06	3.832E-05	1.574E-04	5.579E-04	1.121E-03	1.835E-03	2.626E-03	3.451E-03	4.529E-03
0.00E 00---0.00E 01	2.857E-05	1.472E-04	4.443E-04	9.342E-04	1.530E-03	2.080E-03	2.445E-03	2.623E-03	5.510E-03
0.00E 00---0.00E 01	1.866E-04	4.595E-04	8.728E-04	1.371E-03	1.843E-03	2.165E-03	2.273E-03	2.299E-03	7.121E-03
0.00E 00---0.00E 01	5.851E-04	1.007E-03	1.423E-03	1.752E-03	1.969E-03	2.113E-03	2.235E-03	2.339E-03	9.585E-03
0.00E 00---0.00E 01	1.814E-03	2.162E-03	2.391E-03	2.520E-03	2.637E-03	2.840E-03	3.151E-03	3.450E-03	1.961E-02
0.00E 00---0.00E 01	2.482E-03	2.497E-03	2.599E-03	2.837E-03	3.150E-03	3.408E-03	3.515E-03	3.503E-03	2.803E-02
0.00E 00---0.00E 01	3.747E-03	3.922E-03	4.137E-03	4.360E-03	4.594E-03	4.815E-03	5.040E-03	5.205E-03	5.083E-02
0.00E 00---0.00E 01	1.277E-02	1.350E-02	1.425E-02	1.510E-02	1.590E-02	1.662E-02	1.719E-02	1.755E-02	1.614E-01
0.00E 00---0.00E 01	3.792E-02	3.959E-02	4.138E-02	4.314E-02	4.483E-02	4.631E-02	4.745E-02	4.813E-02	4.762E-01
0.00E 00---0.00E 01	1.036E-02	1.055E-02	1.074E-02	1.092E-02	1.109E-02	1.123E-02	1.133E-02	1.139E-02	1.297E-01

## 8.187 TO 10.000 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

CCSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	6.916E-11	8.560E-11	1.102E-10	1.263E-10	1.351E-10
-9.89401E-01	6.982E-11	8.634E-11	1.110E-10	1.271E-10	1.358E-10
-9.44575E-01	7.108E-11	8.787E-11	1.129E-10	1.290E-10	1.377E-10
-8.65631E-01	7.190E-11	8.891E-11	1.141E-10	1.302E-10	1.388E-10
-7.55044E-01	7.246E-11	8.982E-11	1.158E-10	1.330E-10	1.434E-10
-6.17876E-01	7.565E-11	9.388E-11	1.211E-10	1.401E-10	1.500E-10
-4.58017E-01	8.108E-11	1.002E-10	1.295E-10	1.493E-10	1.603E-10
-2.81505E-01	9.006E-11	1.122E-10	1.445E-10	1.662E-10	1.780E-10
-9.50125E-02	1.032E-10	1.286E-10	1.650E-10	1.889E-10	2.017E-10
9.50125E-02	1.357E-10	1.748E-10	1.912E-10	2.176E-10	2.313E-10
2.81605E-01	1.544E-10	1.745E-10	2.252E-10	2.521E-10	2.673E-10
4.58017E-01	1.816E-10	2.156E-10	2.521E-10	2.954E-10	3.124E-10
6.17876E-01	2.420E-10	2.846E-10	3.387E-10	3.617E-10	3.813E-10
7.55044E-01	4.967E-10	4.847E-10	4.435E-10	4.895E-10	5.110E-10
8.65631E-01	1.419E-09	9.490E-10	7.970E-10	7.921E-10	7.942E-10
9.44575E-01	2.654E-09	2.531E-09	2.131E-09	1.854E-09	1.675E-09
9.89401E-01	1.528E-08	1.505E-08	1.378E-08	1.194E-08	1.003E-08
TOTAL	6.164E-09	6.058E-09	5.916E-09	5.781E-09	5.545E-09

CCSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.166E-10	9.768E-11	4.726E-11	1.920E-11	7.033E-12
-9.89401E-01	1.170E-10	9.799E-11	4.739E-11	1.925E-11	7.053E-12
-9.44575E-01	1.184E-10	9.915E-11	4.796E-11	1.949E-11	7.140E-12
-8.65631E-01	1.204E-10	1.010E-10	4.898E-11	1.993E-11	7.306E-12
-7.55044E-01	1.246E-10	1.046E-10	5.074E-11	2.065E-11	7.572E-12
-6.17876E-01	1.307E-10	1.097E-10	5.329E-11	2.170E-11	7.957E-12
-4.58017E-01	1.400E-10	1.175E-10	5.703E-11	2.319E-11	8.497E-12
-2.81605E-01	1.539E-10	1.288E-10	6.218E-11	2.521E-11	9.220E-12
-9.50125E-02	1.722E-10	1.437E-10	6.892E-11	2.783E-11	1.015E-11
9.50125E-02	1.952E-10	1.624E-10	7.740E-11	3.115E-11	1.134E-11
2.81605E-01	2.233E-10	1.855E-10	8.810E-11	3.539E-11	1.287E-11
4.58017E-01	2.602E-10	2.159E-10	1.024E-10	4.110E-11	1.492E-11
6.17876E-01	3.159E-10	2.618E-10	1.237E-10	4.943E-11	1.788E-11
7.55044E-01	4.132E-10	3.402E-10	1.582E-10	6.249E-11	2.240E-11
8.65631E-01	6.018E-10	4.877E-10	2.187E-10	8.415E-11	2.959E-11
9.44575E-01	1.031E-09	8.051E-10	3.351E-10	1.227E-10	4.161E-11
9.89401E-01	3.852E-09	2.594E-09	7.863E-10	2.364E-10	7.038E-11
TOTAL	3.695E-09	2.942E-09	1.298E-09	5.015E-10	1.779E-10

5.240E-09

5.493E-09

5.545E-09

5.781E-09

5.916E-09

6.058E-09

6.164E-09

6.281E-09

6.400E-09

6.520E-09

6.640E-09

6.760E-09

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON) 8.187 TO 10.000 MEV NEUTRON SOURCE

CCSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	9.978E-11	1.246E-10	1.634E-10	1.908E-10	2.079E-10
-9.89401E-01	1.007E-10	1.257E-10	1.645E-10	1.919E-10	2.089E-10
-9.44575E-01	1.026E-10	1.279E-10	1.672E-10	1.947E-10	2.118E-10
-8.65631E-01	1.038E-10	1.294E-10	1.691E-10	1.966E-10	2.135E-10
-7.55044E-01	1.046E-10	1.307E-10	1.715E-10	2.006E-10	2.202E-10
-6.17876E-01	1.091E-10	1.365E-10	1.792E-10	2.098E-10	2.298E-10
-4.58017E-01	1.168E-10	1.455E-10	1.911E-10	2.241E-10	2.447E-10
-2.81605E-01	1.297E-10	1.626E-10	2.127E-10	2.483E-10	2.701E-10
-9.50125E-02	1.484E-10	1.860E-10	2.420E-10	2.809E-10	3.041E-10
9.50125E-02	1.937E-10	2.527E-10	2.791E-10	3.221E-10	3.468E-10
2.81605E-01	2.216E-10	2.514E-10	3.279E-10	3.710E-10	3.977E-10
4.58017E-01	2.605E-10	3.109E-10	3.661E-10	4.325E-10	4.621E-10
6.17876E-01	3.483E-10	4.079E-10	4.885E-10	5.263E-10	5.595E-10
7.55044E-01	7.186E-10	6.992E-10	6.398E-10	7.086E-10	7.443E-10
8.65631E-01	2.063E-09	1.375E-09	1.148E-09	1.143E-09	1.150E-09
9.44575E-01	3.863E-09	3.678E-09	3.088E-09	2.682E-09	2.424E-09
9.89401E-01	2.232E-08	2.197E-08	2.010E-08	1.740E-08	1.464E-08
TOTAL	8.958E-09	8.802E-09	8.613E-09	8.459E-09	8.169E-09
					7.779E-09
					6.786E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.949E-10	1.678E-10	8.673E-11	3.693E-11	1.400E-11
-9.89401E-01	1.955E-10	1.683E-10	8.695E-11	3.702E-11	1.404E-11
-9.44575E-01	1.977E-10	1.702E-10	8.788E-11	3.741E-11	1.418E-11
-8.65631E-01	2.008E-10	1.731E-10	8.953E-11	3.814E-11	1.446E-11
-7.55044E-01	2.072E-10	1.786E-10	9.233E-11	3.931E-11	1.491E-11
-6.17876E-01	2.164E-10	1.864E-10	9.633E-11	4.099E-11	1.553E-11
-4.58017E-01	2.301E-10	1.981E-10	1.021E-10	4.334E-11	1.640E-11
-2.81605E-01	2.505E-10	2.149E-10	1.099E-10	4.648E-11	1.754E-11
-9.50125E-02	2.773E-10	2.368E-10	1.201E-10	5.050E-11	1.899E-11
9.50125E-02	3.107E-10	2.641E-10	1.327E-10	5.552E-11	2.081E-11
2.81605E-01	3.513E-10	2.975E-10	1.484E-10	6.183E-11	2.310E-11
4.58017E-01	4.040E-10	3.413E-10	1.692E-10	7.020E-11	2.614E-11
6.17876E-01	4.832E-10	4.067E-10	1.998E-10	8.225E-11	3.045E-11
7.55044E-01	6.217E-10	5.183E-10	2.491E-10	1.010E-10	3.694E-11
8.65631E-01	8.911E-10	7.288E-10	3.354E-10	1.319E-10	4.722E-11
9.44575E-01	1.507E-09	1.184E-09	5.020E-10	1.870E-10	6.440E-11
9.89401E-01	5.611E-09	3.784E-09	1.156E-09	3.513E-10	1.059E-10
TOTAL	5.681E-09	4.604E-09	2.128E-09	8.525E-10	3.111E-10
					1.063E-10

4 PI R\*\*2 TISSUE KERMA (NEUTRONS)  
 (CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

8.187 TO 10.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E 00	7.142E-09	8.850E-09	1.143E-08	1.316E-08	1.413E-08	1.451E-08
-9.89401E-01	7.213E-09	8.930E-09	1.151E-08	1.324E-08	1.420E-08	1.457E-08
-9.44575E-01	7.349E-09	9.094E-09	1.171E-08	1.344E-08	1.440E-08	1.477E-08
-8.65631E-01	7.436E-09	9.203E-09	1.185E-08	1.357E-08	1.452E-08	1.493E-08
-7.55044E-01	7.492E-09	9.297E-09	1.202E-08	1.386E-08	1.500E-08	1.543E-08
-6.17876E-01	7.822E-09	9.716E-09	1.257E-08	1.459E-08	1.569E-08	1.614E-08
-4.58017E-01	8.384E-09	1.037E-08	1.343E-08	1.554E-08	1.675E-08	1.724E-08
-2.81605E-01	9.317E-09	1.162E-08	1.500E-08	1.729E-08	1.858E-08	1.908E-08
-9.50125E-02	1.068E-08	1.332E-08	1.712E-08	1.966E-08	2.104E-08	2.153E-08
9.50125E-02	1.404E-08	1.814E-08	1.977E-08	2.267E-08	2.416E-08	2.461E-08
2.81605E-01	1.602E-08	1.810E-08	2.341E-08	2.617E-08	2.780E-08	2.829E-08
4.58017E-01	1.886E-08	2.241E-08	2.615E-08	3.070E-08	3.252E-08	3.297E-08
6.17876E-01	2.328E-08	2.954E-08	3.512E-08	3.752E-08	3.959E-08	4.014E-08
7.55044E-01	5.234E-08	5.808E-08	4.615E-08	5.087E-08	5.314E-08	5.340E-08
8.65631E-01	1.505E-07	1.001E-07	8.334E-08	8.262E-08	8.278E-08	8.154E-08
9.44575E-01	2.820E-07	2.684E-07	2.251E-07	1.951E-07	1.759E-07	1.610E-07
9.89401E-01	1.630E-06	1.604E-06	1.467E-06	1.270E-06	1.068E-06	8.885E-07
TOTAL	6.524E-07	6.395E-07	6.223E-07	6.071E-07	5.820E-07	5.499E-07
						4.721E-07

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	1.242E-08	1.048E-08	5.147E-09	2.115E-09	7.812E-10	2.687E-10
-9.89401E-01	1.247E-08	1.051E-08	5.162E-09	2.121E-09	7.834E-10	2.695E-10
-9.44575E-01	1.262E-08	1.063E-08	5.222E-09	2.146E-09	7.927E-10	2.727E-10
-8.65631E-01	1.283E-08	1.083E-08	5.330E-09	2.192E-09	8.105E-10	2.790E-10
-7.55044E-01	1.327E-08	1.120E-08	5.516E-09	2.269E-09	8.390E-10	2.888E-10
-6.17876E-01	1.390E-08	1.174E-08	5.785E-09	2.380E-09	8.798E-10	3.028E-10
-4.58017E-01	1.486E-08	1.255E-08	6.176E-09	2.537E-09	9.369E-10	3.221E-10
-2.81605E-01	1.631E-08	1.373E-08	6.715E-09	2.749E-09	1.013E-09	3.478E-10
-9.50125E-02	1.821E-08	1.523E-08	7.418E-09	3.024E-09	1.111E-09	3.808E-10
9.50125E-02	2.060E-08	1.721E-08	8.300E-09	3.370E-09	1.235E-09	4.225E-10
2.81605E-01	2.350E-08	1.960E-08	9.408E-09	3.810E-09	1.394E-09	4.761E-10
4.58017E-01	2.730E-08	2.274E-08	1.089E-08	4.400E-09	1.607E-09	5.480E-10
6.17876E-01	3.306E-08	2.748E-08	1.308E-08	5.261E-09	1.913E-09	6.502E-10
7.55044E-01	4.315E-08	3.561E-08	1.666E-08	6.614E-09	2.381E-09	8.024E-10
8.65631E-01	6.285E-08	5.095E-08	2.296E-08	8.866E-09	3.127E-09	1.038E-09
9.44575E-01	1.079E-07	8.431E-08	3.515E-08	1.290E-08	4.362E-09	1.414E-09
9.89401E-01	4.077E-07	2.743E-07	8.293E-08	2.491E-08	7.415E-09	2.184E-09
TOTAL	3.891E-07	3.106E-07	1.382E-07	5.375E-08	1.918E-08	6.442E-09

## 8.187 TO 10.000 MEV NEUTRON SOURCE

4 PI R\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.0000E 00	3.564E-11	4.243E-11	5.143E-11	5.653E-11	5.855E-11	5.841E-11
-9.89401E-01	3.623E-11	4.309E-11	5.211E-11	5.715E-11	5.910E-11	5.888E-11
-9.44575E-01	3.736E-11	4.443E-11	5.363E-11	5.865E-11	6.051E-11	6.015E-11
-8.65631E-01	3.799E-11	4.519E-11	5.445E-11	5.920E-11	6.078E-11	6.063E-11
-7.55044E-01	3.807E-11	4.540E-11	5.498E-11	6.038E-11	6.330E-11	6.314E-11
-6.17876E-01	3.992E-11	4.768E-11	5.782E-11	6.428E-11	6.646E-11	6.634E-11
-6.58017E-01	4.312E-11	5.120E-11	6.228E-11	6.884E-11	7.155E-11	7.154E-11
-2.81605E-01	4.877E-11	5.874E-11	7.142E-11	7.881E-11	8.167E-11	8.139E-11
-9.50125E-02	5.736E-11	6.927E-11	8.417E-11	9.256E-11	9.558E-11	9.488E-11
-2.81605E-01	7.675E-11	9.101E-10	9.766E-10	1.116E-10	1.148E-10	1.116E-10
-4.58017E-01	9.130E-11	9.904E-11	1.232E-10	1.296E-10	1.322E-10	1.320E-10
-6.17876E-01	1.100E-10	1.275E-10	1.370E-10	1.567E-10	1.603E-10	1.563E-10
-7.55044E-01	1.596E-10	1.728E-10	1.912E-10	1.946E-10	1.987E-10	1.970E-10
-8.65631E-01	3.695E-10	3.348E-10	2.679E-10	2.818E-10	2.856E-10	2.789E-10
-9.44575E-01	1.145E-09	7.194E-10	5.343E-10	5.021E-10	4.870E-10	4.693E-10
-9.89401E-01	2.182E-09	2.636E-09	1.637E-09	1.355E-09	1.178E-09	1.049E-09
	1.310E-08	1.282E-08	1.161E-08	9.954E-09	8.284E-09	6.818E-09
TOTAL	4.805E-09	4.544E-09	4.141E-09	3.829E-09	3.506E-09	3.172E-09

COSINE	RANGE (METERS)			
	500.0	600.0	900.0	1200.0
-1.0000E 00	4.648E-11	3.824E-11	1.815E-11	7.325E-12
-9.89401E-01	4.672E-11	3.852E-11	1.821E-11	7.348E-12
-9.44575E-01	4.750E-11	3.911E-11	1.845E-11	7.430E-12
-8.65631E-01	4.824E-11	3.979E-11	1.882E-11	7.595E-12
-7.55044E-01	5.018E-11	4.136E-11	1.953E-11	7.872E-12
-6.17876E-01	5.280E-11	4.353E-11	2.055E-11	8.272E-12
-4.58017E-01	5.707E-11	4.703E-11	2.213E-11	8.877E-12
-2.81605E-01	6.414E-11	5.259E-11	2.444E-11	9.728E-12
-9.50125E-02	7.369E-11	6.005E-11	2.752E-11	1.085E-11
-9.89401E-01	8.564E-11	6.937E-11	3.139E-11	1.227E-11
-2.81605E-01	9.990E-11	8.066E-11	3.622E-11	1.409E-11
-4.58017E-01	1.186E-10	9.573E-11	4.293E-11	1.666E-11
-6.17876E-01	1.492E-10	1.204E-10	5.384E-11	2.080E-11
-7.55044E-01	2.092E-10	1.679E-10	7.387E-11	2.812E-11
-8.65631E-01	3.378E-10	2.669E-10	1.130E-10	4.169E-11
-9.44575E-01	6.551E-10	4.990E-10	1.955E-10	6.840E-11
-9.89401E-01	2.956E-09	1.971E-09	5.577E-10	1.574E-10
TOTAL	1.982E-09	1.513E-09	6.127E-10	2.247E-10

COSINE	RANGE (METERS)		
	1500.0	1800.0	2000.0
-1.0000E 00	2.681E-12	2.681E-12	2.681E-12
-9.89401E-01	2.689E-12	2.689E-12	2.689E-12
-9.44575E-01	2.721E-12	2.721E-12	2.721E-12
-8.65631E-01	2.779E-12	2.779E-12	2.779E-12
-7.55044E-01	2.877E-12	2.877E-12	2.877E-12
-6.17876E-01	3.021E-12	3.021E-12	3.021E-12
-4.58017E-01	3.231E-12	3.231E-12	3.231E-12
-2.81605E-01	3.522E-12	3.522E-12	3.522E-12
-9.50125E-02	3.903E-12	3.903E-12	3.903E-12
-9.89401E-01	4.387E-12	4.387E-12	4.387E-12
-2.81605E-01	5.020E-12	5.020E-12	5.020E-12
-4.58017E-01	5.921E-12	5.921E-12	5.921E-12
-6.17876E-01	7.355E-12	7.355E-12	7.355E-12
-7.55044E-01	9.816E-12	9.816E-12	9.816E-12
-8.65631E-01	1.420E-11	1.420E-11	1.420E-11
-9.44575E-01	2.228E-11	2.228E-11	2.228E-11
-9.89401E-01	4.427E-11	4.427E-11	4.427E-11
TOTAL	7.703E-11	7.703E-11	7.703E-11



4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

8.187 TO 10.000 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	200.0	250.0	300.0	400.0
-1.00000E+00	9.346E-10	1.149E-09	1.466E-09	1.673E-09	1.784E-09	1.821E-09	1.737E-09
-9.89401E-01	9.465E-10	1.162E-09	1.480E-09	1.686E-09	1.796E-09	1.832E-09	1.745E-09
-9.44575E-01	9.659E-10	1.190E-09	1.513E-09	1.719E-09	1.828E-09	1.862E-09	1.771E-09
-8.65631E-01	9.851E-10	1.209E-09	1.535E-09	1.739E-09	1.844E-09	1.883E-09	1.797E-09
-7.55044E-01	9.921E-10	1.221E-09	1.557E-09	1.777E-09	1.911E-09	1.952E-09	1.863E-09
-6.17876E-01	1.038E-09	1.278E-09	1.630E-09	1.876E-09	1.999E-09	2.043E-09	1.952E-09
-4.58017E-01	1.114E-09	1.365E-09	1.744E-09	1.997E-09	2.136E-09	2.185E-09	2.090E-09
-2.81605E-01	1.243E-09	1.537E-09	1.958E-09	2.236E-09	2.383E-09	2.431E-09	2.314E-09
-9.5125E-02	1.435E-09	1.775E-09	2.253E-09	2.562E-09	2.720E-09	2.764E-09	2.614E-09
9.50125E-02	1.904E-09	2.457E-09	2.591E-09	2.977E-09	3.167E-09	3.180E-09	2.992E-09
2.81605E-01	2.189E-09	2.455E-09	3.149E-09	3.446E-09	3.629E-09	3.686E-09	3.445E-09
4.58017E-01	2.600E-09	3.063E-09	3.497E-09	4.092E-09	4.299E-09	4.309E-09	4.028E-09
6.17876E-01	3.607E-09	4.097E-09	4.754E-09	5.010E-09	5.244E-09	5.294E-09	4.929E-09
7.55044E-01	7.832E-09	7.378E-09	6.379E-09	6.939E-09	7.188E-09	7.162E-09	6.606E-09
8.65631E-01	2.328E-08	1.510E-08	1.197E-08	1.162E-08	1.152E-08	1.127E-08	1.011E-08
9.44575E-01	4.397E-08	4.145E-08	3.410E-08	2.896E-08	2.571E-08	2.326E-08	1.904E-08
9.89401E-01	2.590E-07	2.541E-07	2.313E-07	1.993E-07	1.667E-07	1.379E-07	9.283E-08
TOTAL	9.956E-08	9.610E-08	9.113E-08	8.717E-08	8.218E-08	7.656E-08	6.428E-08

RANGE (METERS)

RANGE (METERS)

COSINE	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E+00	1.532E-09	1.283E-09	6.211E-10	2.526E-10	9.264E-11	3.169E-11
-9.89401E-01	1.538E-09	1.288E-09	6.231E-10	2.534E-10	9.291E-11	3.179E-11
-9.44575E-01	1.560E-09	1.305E-09	6.309E-10	2.565E-10	9.407E-11	3.218E-11
-8.65631E-01	1.587E-09	1.330E-09	6.444E-10	2.623E-10	9.624E-11	3.294E-11
-7.55044E-01	1.645E-09	1.378E-09	6.677E-10	2.718E-10	9.972E-11	3.413E-11
-6.17876E-01	1.724E-09	1.446E-09	7.011E-10	2.854E-10	1.047E-10	3.584E-11
-4.58017E-01	1.847E-09	1.549E-09	7.503E-10	3.050E-10	1.118E-10	3.923E-11
-2.81605E-01	2.037E-09	1.702E-09	8.192E-10	3.318E-10	1.213E-10	4.142E-11
9.50125E-02	2.290E-09	1.906E-09	9.100E-10	3.668E-10	1.337E-10	4.554E-11
9.50125E-02	2.608E-09	2.162E-09	1.024E-09	4.109E-10	1.494E-10	5.077E-11
2.81605E-01	2.993E-09	2.475E-09	1.167E-09	4.670E-10	1.694E-10	5.752E-11
4.58017E-01	3.495E-09	2.888E-09	1.359E-09	5.425E-10	1.967E-10	6.666E-11
6.17876E-01	4.265E-09	3.522E-09	1.649E-09	6.558E-10	2.366E-10	7.989E-11
7.55044E-01	5.674E-09	4.647E-09	2.137E-09	8.383E-10	2.991E-10	1.001E-10
8.65631E-01	8.505E-09	6.845E-09	3.024E-09	1.152E-09	4.019E-10	1.323E-10
9.44575E-01	1.518E-08	1.175E-08	4.794E-09	1.730E-09	5.800E-10	1.851E-10
9.89401E-01	6.198E-08	4.126E-08	1.212E-08	3.547E-09	1.033E-09	2.988E-10
TOTAL	5.206E-08	4.099E-08	1.772E-08	6.768E-09	2.385E-09	7.937E-10

## 8.187 TO 10.000 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	1.377E-09	1.671E-09	2.083E-09	2.332E-09	2.448E-09	2.465E-09
-9.89401E-01	1.358E-09	1.694E-09	2.107E-09	2.355E-09	2.468E-09	2.483E-09
-9.44575E-01	1.440E-09	1.744E-09	2.164E-09	2.411E-09	2.521E-09	2.532E-09
-8.65631E-01	1.467E-09	1.777E-09	2.201E-09	2.440E-09	2.542E-09	2.559E-09
-7.55044E-01	1.476E-09	1.792E-09	2.230E-09	2.464E-09	2.561E-09	2.580E-09
-6.17876E-01	1.545E-09	1.878E-09	2.339E-09	2.641E-09	2.768E-09	2.801E-09
-4.58017E-01	1.660E-09	2.006E-09	2.504E-09	2.814E-09	2.960E-09	3.119E-09
-2.81605E-01	1.858E-09	2.272E-09	2.831E-09	3.175E-09	3.351E-09	3.52E-09
-9.50125E-02	2.159E-09	2.644E-09	3.288E-09	3.674E-09	3.841E-09	3.951E-09
9.50125E-02	2.869E-09	3.746E-09	4.852E-09	4.326E-09	4.505E-09	4.623E-09
2.81605E-01	3.351E-09	3.701E-09	4.660E-09	5.057E-09	5.244E-09	5.448E-09
4.58017E-01	4.007E-09	4.657E-09	5.232E-09	6.023E-09	6.242E-09	6.499E-09
6.17876E-01	5.707E-09	6.372E-09	7.209E-09	7.899E-09	7.744E-09	7.720E-09
7.55044E-01	1.283E-08	1.184E-08	9.822E-09	1.056E-08	1.083E-08	1.070E-08
8.65631E-01	3.899E-08	2.489E-08	1.913E-08	1.825E-08	1.791E-08	1.739E-08
9.44575E-01	7.40CE-08	6.937E-08	5.639E-08	4.728E-08	4.153E-08	3.729E-08
9.89401E-01	4.4CE-07	4.317E-07	3.918E-07	3.366E-07	2.808E-07	2.316E-07
TOTAL	1.651E-07	1.577E-07	1.466E-07	1.377E-07	1.278E-07	1.173E-07

9.603E-08

CCSINE

RANGE (METERS)  
900.0 1200.0 1500.0 1800.0

CCSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-00	2.001E-09	1.658E-09	7.883E-10	3.182E-10	1.163E-10	3.974E-11
-9.89401E-01	2.010E-09	1.665E-09	7.908E-10	3.191E-10	1.166E-10	3.985E-11
-9.44575E-01	2.041E-09	1.688E-09	8.007E-10	3.229E-10	1.180E-10	4.030E-11
-8.65631E-01	2.075E-09	1.719E-09	8.168E-10	3.296E-10	1.205E-10	4.115E-11
-7.55044E-01	2.153E-09	1.783E-09	8.461E-10	3.411E-10	1.246E-10	4.253E-11
-6.17876E-01	2.260E-09	1.871E-09	8.881E-10	3.578E-10	1.306E-10	4.455E-11
-4.58017E-01	2.428E-09	2.010E-09	9.522E-10	3.826E-10	1.393E-10	4.743E-11
-2.81605E-01	2.699E-09	2.226E-09	1.044E-09	4.172E-10	1.513E-10	5.135E-11
-9.50125E-02	3.065E-09	2.516E-09	1.168E-09	4.630E-10	1.670E-10	5.648E-11
9.50125E-02	3.528E-09	4.882E-09	1.324E-09	5.214E-10	1.872E-10	6.309E-11
2.81605E-01	4.091E-09	3.335E-09	1.522E-09	5.969E-10	2.136E-10	7.181E-11
4.58017E-01	4.834E-09	3.936E-09	1.795E-09	7.024E-10	2.507E-10	8.409E-11
6.17876E-01	6.014E-09	4.895E-09	2.224E-09	8.664E-10	3.078E-10	1.028E-10
7.55044E-01	8.230E-09	6.660E-09	2.978E-09	1.144E-09	4.017E-10	1.327E-10
8.65631E-01	1.281E-08	1.021E-08	4.392E-09	1.639E-09	5.621E-10	1.823E-10
9.44575E-01	2.381E-08	1.827E-08	7.283E-09	2.575E-09	8.480E-10	2.664E-10
9.89401E-01	1.028E-07	6.799E-08	1.955E-08	5.599E-09	1.597E-09	4.528E-10
TOTAL	7.616E-08	5.891E-08	2.450E-08	9.122E-09	3.157E-09	1.037E-09

4. FI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 9.187 TO 10.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E 00	2.920E-10	3.273E-10	3.611E-10	3.710E-10	3.638E-10	3.462E-10
-9.89401E-01	3.051E-10	3.420E-10	3.765E-10	3.81E-10	3.760E-10	3.566E-10
-9.44575E-01	3.325E-10	3.744E-10	4.125E-10	4.199E-10	4.076E-10	3.842E-10
-8.65631E-01	3.503E-10	3.953E-10	4.341E-10	4.339E-10	4.138E-10	3.920E-10
-7.55044E-01	3.506E-10	3.967E-10	4.380E-10	4.466E-10	4.488E-10	4.245E-10
-6.17876E-01	3.729E-10	4.226E-10	4.666E-10	4.898E-10	4.740E-10	4.484E-10
-4.58017E-01	4.041E-10	4.533E-10	5.031E-10	5.200E-10	5.102E-10	4.856E-10
-2.81605E-01	4.721E-10	5.436E-10	6.077E-10	6.305E-10	6.189E-10	5.885E-10
-9.50125E-02	5.828E-10	6.763E-10	7.628E-10	7.930E-10	7.790E-10	7.397E-10
9.50125E-02	8.177E-10	1.091E-09	8.502E-10	1.070E-09	1.055E-09	9.210E-10
2.81605E-01	1.024E-09	1.077E-09	1.298E-09	1.190E-09	1.160E-09	1.165E-09
4.58017E-01	1.296E-09	1.446E-09	1.366E-09	1.574E-09	1.541E-09	1.398E-09
6.17876E-01	2.221E-09	2.117E-09	2.062E-09	1.958E-09	1.914E-09	1.869E-09
7.55044E-01	6.044E-09	4.988E-09	3.249E-09	3.210E-09	3.135E-09	2.934E-09
8.65631E-01	2.049E-08	1.207E-08	7.660E-09	6.623E-09	6.153E-09	5.780E-09
9.44575E-01	3.980E-08	3.628E-08	2.778E-08	2.169E-08	1.797E-08	1.541E-08
9.89401E-01	2.454E-07	2.426E-07	2.172E-07	1.842E-07	1.515E-07	1.232E-07
TOTAL	8.342E-08	7.583E-08	6.437E-08	5.605E-08	4.848E-08	4.174E-08

CCSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	2.363E-10	1.457E-10	7.701E-11	2.831E-11	9.672E-12	3.140E-12
-9.89401E-01	2.431E-10	1.889E-10	7.791E-11	2.857E-11	9.744E-12	3.160E-12
-9.44575E-01	2.570E-10	1.985E-10	8.088E-11	2.946E-11	1.001E-11	3.239E-12
-8.65631E-01	2.651E-10	2.052E-10	8.387E-11	3.057E-11	1.039E-11	3.359E-12
-7.55044E-01	2.850E-10	2.200E-10	8.938E-11	3.246E-11	1.100E-11	3.522E-12
-6.17876E-01	3.023E-10	2.338E-10	9.552E-11	3.480E-11	1.181E-11	3.817E-12
-4.58017E-01	3.334E-10	2.593E-10	1.068E-10	3.887E-11	1.316E-11	4.243E-12
-2.81605E-01	4.006E-10	3.099E-10	1.255E-10	4.528E-11	1.521E-11	4.871E-12
-9.50125E-02	4.982E-10	3.831E-10	1.526E-10	5.427E-11	1.804E-11	5.729E-12
9.50125E-02	6.219E-10	4.751E-10	1.864E-10	6.552E-11	2.161E-11	6.825E-12
2.81605E-01	7.606E-10	5.756E-10	2.263E-10	7.942E-11	2.618E-11	8.283E-12
4.58017E-01	9.348E-10	7.148E-10	2.819E-10	9.972E-11	3.305E-11	1.047E-11
6.17876E-01	1.233E-09	9.643E-10	3.860E-10	1.376E-10	4.576E-11	1.451E-11
7.55044E-01	1.995E-09	1.538E-09	6.145E-10	2.175E-10	7.163E-11	2.248E-11
8.65631E-01	3.817E-09	2.913E-09	1.130E-09	3.887E-10	1.248E-10	3.832E-11
9.44575E-01	8.796E-09	6.487E-09	2.346E-09	7.663E-10	2.358E-10	6.981E-11
9.89401E-01	5.143E-08	3.297E-08	8.638E-09	2.261E-09	5.923E-10	1.554E-10
TOTAL	2.206E-08	1.572E-08	5.386E-09	1.743E-09	5.423E-10	1.638E-10

4 PI R\*\*2 MCN IONIZING SILICON KERMA (NEUTRONS) 8.187 TO 10.000 MEV NEUTRON SOURCE  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	9.447E-11	1.168E-10	1.501E-10	1.720E-10	1.881E-10
-9.89401E-01	9.530E-11	1.177E-10	1.511E-10	1.729E-10	1.889E-10
-0.44575E-01	9.682E-11	1.195E-10	1.533E-10	1.753E-10	1.912E-10
-8.65631E-01	9.771E-11	1.207E-10	1.548E-10	1.767E-10	1.932E-10
-7.55044E-01	9.836E-11	1.218E-10	1.569E-10	1.804E-10	1.996E-10
-6.17876E-01	1.027E-10	1.273E-10	1.642E-10	2.038E-10	2.091E-10
-4.58017E-01	1.103E-10	1.362E-10	1.759E-10	2.209E-10	2.239E-10
-2.81605E-01	1.227E-10	1.527E-10	1.768E-10	2.261E-10	2.462E-10
-9.50125E-02	1.407E-10	1.752E-10	2.246E-10	2.572E-10	2.804E-10
9.50125E-02	1.844E-10	2.379E-10	2.574E-10	2.978E-10	3.204E-10
2.81605E-01	2.107E-10	2.381E-10	3.080E-10	3.416E-10	3.692E-10
4.58017E-01	2.477E-10	2.956E-10	3.425E-10	4.025E-10	4.300E-10
6.17876E-01	3.275E-10	3.842E-10	4.594E-10	4.900E-10	5.240E-10
7.55044E-01	6.658E-10	6.534E-10	6.032E-10	6.640E-10	6.954E-10
8.65631E-01	1.890E-09	1.270E-09	1.073E-09	1.070E-09	1.057E-09
9.44575E-01	3.532E-09	3.375E-09	2.850E-09	2.487E-09	2.067E-09
9.89401E-01	2.024E-08	1.994E-08	1.828E-08	1.586E-08	1.114E-08
TOTAL	8.230E-09	8.107E-09	7.939E-09	7.778E-09	7.072E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.588E-10	1.330E-10	6.428E-11	2.608E-11	3.258E-12
-9.89401E-01	1.593E-10	1.334E-10	5.447E-11	2.616E-11	3.268E-12
-9.44575E-01	1.612E-10	1.350E-10	6.525E-11	2.648E-11	3.310E-12
-8.65631E-01	1.639E-10	1.375E-10	6.666E-11	2.710E-11	3.391E-12
-7.55044E-01	1.656E-10	1.424E-10	6.910E-11	2.810E-11	3.519E-12
-6.17876E-01	1.761E-10	1.496E-10	7.265E-11	2.956E-11	3.704E-12
-4.58017E-01	1.905E-10	1.603E-10	7.781E-11	3.163E-11	3.958E-12
-2.81605E-01	2.099E-10	1.759E-10	8.493E-11	3.443E-11	4.296E-12
-9.50125E-02	2.350E-10	1.963E-10	9.419E-11	3.805E-11	4.731E-12
9.50125E-02	2.663E-10	2.217E-10	1.058E-10	4.262E-11	5.284E-12
2.81605E-01	3.045E-10	2.531E-10	1.204E-10	4.844E-11	5.944E-12
4.58017E-01	3.543E-10	2.944E-10	1.392E-10	5.623E-11	6.947E-12
6.17876E-01	4.295E-10	3.563E-10	1.687E-10	6.756E-11	8.296E-12
7.55044E-01	5.606E-10	4.620E-10	2.154E-10	8.525E-11	1.030E-11
8.65631E-01	8.143E-10	6.604E-10	2.969E-10	1.145E-10	1.338E-11
9.44575E-01	1.391E-09	1.087E-09	4.537E-10	1.666E-10	1.827E-11
9.89401E-01	5.145E-09	3.474E-09	1.058E-09	3.193E-10	2.817E-11
TOTAL	5.007E-09	3.992E-09	1.767E-09	6.837E-10	8.125E-11

4 PI R\*\*2 NCN IONIZING SILICON KERMA (NEUTRONS) 8.187 TO 10.000 MEV NEUTRON SOURCE  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.0000E-06	9.447E-11	1.168E-10	1.501E-10	1.726E-10	1.943E-10	1.881E-10
-9.89401E-01	9.530E-11	1.177E-10	1.511E-10	1.729E-10	1.848E-10	1.889E-10
-9.44575E-01	9.682E-11	1.195E-10	1.533E-10	1.753E-10	1.872E-10	1.912E-10
-8.65631E-01	9.771E-11	1.207E-10	1.548E-10	1.767E-10	1.886E-10	1.932E-10
-7.55044E-01	9.836E-11	1.218E-10	1.569E-10	1.804E-10	1.947E-10	1.996E-10
-6.17876E-01	1.027E-10	1.273E-10	1.642E-10	1.901E-10	2.038E-10	2.091E-10
-4.58017E-01	1.103E-10	1.362E-10	1.759E-10	2.029E-10	2.181E-10	2.239E-10
-2.81605E-01	1.227E-10	1.527E-10	1.968E-10	2.261E-10	2.423E-10	2.482E-10
-9.50125E-02	1.407E-10	1.752E-10	2.246E-10	2.572E-10	2.747E-10	2.804E-10
9.50125E-02	1.844E-10	2.379E-10	2.574E-10	2.978E-10	3.168E-10	3.204E-10
2.81605E-01	2.107E-10	2.381E-10	3.080E-10	3.416E-10	3.621E-10	3.692E-10
4.58017E-01	2.477E-10	2.956E-10	3.425E-10	4.025E-10	4.258E-10	4.300E-10
6.17876E-01	3.275E-10	3.842E-10	4.594E-10	4.900E-10	5.165E-10	5.240E-10
7.55044E-01	6.658E-10	6.534E-10	6.032E-10	6.640E-10	6.931E-10	6.954E-10
8.65631E-01	1.890E-09	1.270E-09	1.073E-09	1.070E-09	1.073E-09	1.057E-09
9.44575E-01	3.532E-09	3.375E-09	2.850E-09	2.487E-09	2.253E-09	2.067E-09
9.89401E-01	2.024E-08	1.994E-08	1.828E-08	1.586E-08	1.336E-08	1.114E-08
TOTAL	8.230E-09	8.107E-09	7.939E-09	7.778E-09	7.474E-09	7.072E-09

6.078E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.0000E-06	1.588E-10	1.330E-10	6.428E-11	2.606E-11	9.543E-12	3.258E-12
-9.89401E-01	1.593E-10	1.334E-10	6.447E-11	2.616E-11	9.572E-12	3.268E-12
-9.44575E-01	1.612E-10	1.350E-10	6.523E-11	2.648E-11	9.694E-12	3.310E-12
-8.65631E-01	1.639E-10	1.375E-10	6.668E-11	2.710E-11	9.926E-12	3.391E-12
-7.55044E-01	1.656E-10	1.424E-10	6.910E-11	2.810E-11	1.030E-11	3.519E-12
-6.17876E-01	1.781E-10	1.496E-10	7.265E-11	2.956E-11	1.084E-11	3.704E-12
-4.58017E-01	1.905E-10	1.603E-10	7.781E-11	3.163E-11	1.159E-11	3.958E-12
-2.81605E-01	2.099E-10	1.759E-10	8.493E-11	3.443E-11	1.259E-11	4.296E-12
-9.50125E-02	2.350E-10	1.963E-10	9.419E-11	3.805E-11	1.388E-11	4.731E-12
9.50125E-02	2.663E-10	2.217E-10	1.058E-10	4.262E-11	1.552E-11	5.284E-12
2.81605E-01	3.045E-10	2.531E-10	1.204E-10	4.844E-11	1.762E-11	5.944E-12
4.58017E-01	3.543E-10	2.944E-10	1.393E-10	5.623E-11	2.044E-11	6.947E-12
6.17876E-01	4.295E-10	3.563E-10	1.687E-10	6.756E-11	2.448E-11	8.296E-12
7.55044E-01	5.606E-10	4.620E-10	2.154E-10	8.525E-11	3.061E-11	1.030E-11
8.65631E-01	8.143E-10	6.604E-10	2.969E-10	1.145E-10	4.035E-11	1.338E-11
9.44575E-01	1.391E-09	1.087E-09	4.537E-10	1.666E-10	5.662E-11	1.827E-11
9.89401E-01	5.145E-09	3.474E-09	1.058E-09	3.193E-10	9.540E-11	2.817E-11
TOTAL	5.007E-09	3.992E-09	1.767E-09	6.837E-10	2.429E-10	8.125E-11

4 PI R\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

8.187 TO 10.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E 00	1.155E-09	1.325E-09	1.513E-09	1.586E-09	1.583E-09
-9.89401E-01	1.166E-09	1.337E-09	1.525E-09	1.602E-09	1.552E-09
-9.44575E-01	1.191E-09	1.371E-09	1.572E-09	1.660E-09	1.625E-09
-8.65631E-01	1.240E-09	1.432E-09	1.654E-09	1.759E-09	1.742E-09
-7.50044E-01	1.309E-09	1.518E-09	1.763E-09	1.881E-09	1.908E-09
-6.17876E-01	1.402E-09	1.630E-09	1.896E-09	2.025E-09	2.053E-09
-4.58017E-01	1.524E-09	1.777E-09	2.067E-09	2.204E-09	2.181E-09
-2.81605E-01	1.688E-09	1.974E-09	2.298E-09	2.449E-09	2.417E-09
-9.50125E-02	1.907E-09	2.243E-09	2.618E-09	2.797E-09	2.767E-09
9.50125E-02	2.254E-09	3.262E-09	2.781E-09	3.433E-09	3.249E-09
2.81605E-01	3.110E-09	3.175E-09	3.859E-09	3.856E-09	4.028E-09
4.58017E-01	3.594E-09	3.306E-09	4.402E-09	5.125E-09	5.032E-09
6.17876E-01	3.752E-09	5.702E-09	6.818E-09	6.485E-09	6.726E-09
7.55044E-01	4.917E-09	8.855E-09	7.505E-09	9.397E-09	9.560E-09
8.65631E-01	8.041E-09	8.904E-09	1.360E-08	1.442E-08	1.524E-08
9.44575E-01	1.272E-08	1.664E-08	2.130E-08	2.549E-08	2.832E-08
9.89401E-01	1.903E-08	2.872E-08	4.440E-08	5.548E-08	6.744E-08
TOTAL	4.005E-08	4.966E-08	6.172E-08	6.930E-08	7.303E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E 00	1.128E-09	9.100E-10	4.219E-10	1.774E-10	2.838E-11
-9.89401E-01	1.150E-09	9.305E-10	4.373E-10	1.865E-10	3.097E-11
-9.44575E-01	1.227E-09	1.003E-09	4.827E-10	2.118E-10	3.841E-11
-8.65631E-01	1.342E-09	1.106E-09	5.492E-10	2.495E-10	4.655E-11
-7.55044E-01	1.452E-09	1.195E-09	5.984E-10	2.722E-10	5.253E-11
-6.17876E-01	1.545E-09	1.273E-09	6.254E-10	2.788E-10	5.028E-11
-4.58017E-01	1.655E-09	1.351E-09	6.476E-10	2.804E-10	4.848E-11
-2.81605E-01	1.820E-09	1.480E-09	7.017E-10	3.032E-10	5.235E-11
-9.50125E-02	2.093E-09	1.766E-09	8.174E-10	3.583E-10	6.341E-11
9.50125E-02	2.507E-09	2.056E-09	1.003E-09	4.480E-10	8.291E-11
2.81605E-01	3.093E-09	2.546E-09	1.254E-09	5.638E-10	1.047E-10
4.58017E-01	3.932E-09	3.240E-09	1.592E-09	7.084E-10	1.263E-10
6.17876E-01	5.270E-09	4.355E-09	2.148E-09	9.524E-10	1.648E-10
7.55044E-01	7.124E-09	6.444E-09	3.279E-09	1.499E-09	2.760E-10
8.65631E-01	1.274E-08	1.085E-08	5.860E-09	2.847E-09	5.955E-10
9.44575E-01	2.491E-08	2.168E-08	1.246E-08	6.425E-09	1.497E-09
9.89401E-01	6.566E-08	5.904E-08	3.649E-08	1.992E-08	5.064E-09
TOTAL	6.067E-09	5.151E-08	2.763E-08	1.343E-08	2.853E-09

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CH\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

8.167 TO 10.000 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.320E-09	1.619E-09	2.084E-09	2.422E-09	2.636E-09
-9.89401E-01	1.327E-09	1.627E-09	2.097E-09	2.438E-09	2.655E-09
-9.44575E-01	1.352E-09	1.660E-09	2.144E-09	2.497E-09	2.724E-09
-8.65631E-01	1.399E-09	1.720E-09	2.228E-09	2.601E-09	2.842E-09
-7.55044E-01	1.466E-09	1.805E-09	2.339E-09	2.731E-09	2.984E-09
-6.17876E-01	1.556E-09	1.916E-09	2.478E-09	2.887E-09	3.148E-09
-4.58017E-01	1.675E-09	2.062E-09	2.656E-09	3.083E-09	3.483E-09
-2.91605E-01	1.832E-09	2.257E-09	2.894E-09	3.347E-09	3.625E-09
-9.50125E-02	2.044E-09	2.520E-09	3.220E-09	3.714E-09	4.013E-09
9.50125E-02	2.374E-09	3.483E-09	4.313E-09	4.352E-09	4.691E-09
2.81605E-01	3.184E-09	3.415E-09	4.440E-09	4.815E-09	5.187E-09
4.58017E-01	3.629E-09	3.569E-09	5.000E-09	6.057E-09	6.494E-09
6.17876E-01	3.796E-09	5.800E-09	7.279E-09	7.408E-09	7.924E-09
7.55044E-01	4.891E-09	6.900E-09	7.994E-09	1.019E-08	1.085E-08
8.65631E-01	7.797E-09	8.298E-09	1.369E-08	1.495E-08	1.597E-08
9.44575E-01	1.213E-08	1.601E-08	2.088E-08	2.529E-08	2.768E-08
9.89401E-01	1.797E-08	2.718E-08	4.224E-08	5.303E-08	6.038E-08
TOTAL	4.072E-08	5.184E-08	6.779E-08	7.930E-08	8.607E-08

300.0	400.0
2.746E-09	2.721E-09
2.766E-09	2.743E-09
2.843E-09	2.827E-09
2.970E-09	2.959E-09
3.118E-09	3.105E-09
3.283E-09	3.258E-09
3.483E-09	3.440E-09
3.759E-09	3.695E-09
4.153E-09	4.070E-09
4.683E-09	4.607E-09
5.501E-09	5.341E-09
6.546E-09	6.376E-09
8.245E-09	7.948E-09
1.102E-08	1.065E-08
1.644E-08	1.592E-08
2.868E-08	2.821E-08
6.483E-08	6.694E-08
8.917E-08	8.775E-08

RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

50.0

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	2.487E-09	2.157E-09	1.177E-09	5.632E-10	2.551E-10
-9.89401E-01	2.510E-09	2.179E-09	1.193E-09	5.724E-10	2.600E-10
-9.44575E-01	2.592E-09	2.255E-09	1.241E-09	5.987E-10	2.746E-10
-8.65631E-01	2.719E-09	2.370E-09	1.314E-09	6.395E-10	2.935E-10
-7.55044E-01	2.852E-09	2.485E-09	1.377E-09	6.892E-10	3.085E-10
-6.17876E-01	2.983E-09	2.592E-09	1.426E-09	7.375E-10	3.142E-10
-4.58017E-01	3.136E-09	2.715E-09	1.477E-09	7.838E-10	3.178E-10
-2.91605E-01	3.356E-09	2.856E-09	1.564E-09	8.344E-10	3.357E-10
-9.50125E-02	3.690E-09	3.180E-09	1.715E-09	8.162E-10	3.686E-10
9.50125E-02	4.171E-09	3.593E-09	1.939E-09	9.245E-10	4.192E-10
2.81605E-01	4.827E-09	4.150E-09	2.232E-09	1.061E-09	4.791E-10
4.58017E-01	5.736E-09	4.913E-09	2.615E-09	1.228E-09	5.480E-10
6.17876E-01	7.124E-09	6.084E-09	3.209E-09	1.493E-09	6.576E-10
7.55044E-01	9.556E-09	8.172E-09	4.345E-09	2.042E-09	9.093E-10
8.65631E-01	1.439E-08	1.242E-08	6.827E-09	3.336E-09	1.547E-09
9.44575E-01	2.580E-08	2.257E-08	1.300E-08	6.679E-09	3.252E-09
9.89401E-01	6.337E-08	5.697E-08	3.507E-08	1.903E-08	9.719E-09
TOTAL	7.997E-08	6.940E-08	3.851E-08	1.894E-08	8.842E-09

4.036E-09

## 8.187 TO 10.000 MEV NEUTRON SOURCE

4 PI R\*2 SILICON KERMA (GAMMAS)  
(CM\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

CCSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	1.190E-09	1.368E-09	1.569E-09	1.659E-09	1.629E-09
-9.89401E-01	1.196E-09	1.377E-09	1.582E-09	1.679E-09	1.649E-09
-9.44575E-01	1.222E-09	1.410E-09	1.629E-09	1.734E-09	1.659E-09
-8.65631E-01	1.272E-09	1.473E-09	1.713E-09	1.835E-09	1.724E-09
-7.55044E-01	1.343E-09	1.560E-09	1.823E-09	1.959E-09	1.843E-09
-6.17876E-01	1.437E-09	1.674E-09	1.959E-09	2.105E-09	1.977E-09
-4.58017E-01	1.562E-09	1.824E-09	2.133E-09	2.287E-09	2.119E-09
-2.81605E-01	1.728E-09	2.025E-09	2.368E-09	2.536E-09	2.277E-09
-9.50125E-02	1.952E-09	2.299E-09	2.694E-09	2.889E-09	2.527E-09
9.50125E-02	2.306E-09	3.338E-09	2.855E-09	3.537E-09	2.883E-09
4.58017E-01	3.176E-09	3.250E-09	3.958E-09	3.964E-09	3.371E-09
2.81605E-01	3.676E-09	3.380E-09	4.507E-09	5.258E-09	4.049E-09
6.17876E-01	3.832E-09	5.827E-09	6.973E-09	6.638E-09	5.181E-09
7.55044E-01	5.020E-09	7.001E-09	7.666E-09	9.606E-09	6.901E-09
8.65631E-01	8.210E-09	9.090E-09	1.389E-08	1.472E-08	9.783E-09
9.44575E-01	1.299E-08	1.699E-08	2.175E-08	2.603E-08	1.557E-08
9.89401E-01	1.943E-08	2.933E-08	4.535E-08	5.668E-08	2.892E-08
TOTAL	4.095E-08	5.080E-08	6.323E-08	7.111E-08	7.464E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.234E-09	1.006E-09	4.790E-10	2.056E-10	8.443E-11
-9.89401E-01	1.256E-09	1.027E-09	4.948E-10	2.150E-10	8.951E-11
-9.44575E-01	1.355E-09	1.101E-09	5.412E-10	2.409E-10	9.512E-11
-8.65631E-01	1.452E-09	1.207E-09	6.091E-10	2.794E-10	1.042E-10
-7.55044E-01	1.564E-09	1.302E-09	6.592E-10	3.024E-10	1.220E-10
-6.17876E-01	1.662E-09	1.376E-09	6.862E-10	3.090E-10	1.340E-10
-4.58017E-01	1.765E-09	1.455E-09	7.081E-10	3.101E-10	1.340E-10
-2.81605E-01	1.935E-09	1.584E-09	7.621E-10	3.328E-10	1.399E-10
9.50125E-02	2.211E-09	1.813E-09	8.789E-10	3.884E-10	1.650E-10
9.50125E-02	2.631E-09	2.166E-09	1.067E-09	4.790E-10	2.078E-10
2.81605E-01	3.224E-09	2.662E-09	1.320E-09	5.959E-10	2.587E-10
4.58017E-01	4.073E-09	3.364E-09	1.661E-09	7.413E-10	3.167E-10
6.17876E-01	5.428E-09	4.492E-09	2.222E-09	9.868E-10	4.162E-10
7.55044E-01	7.907E-09	6.611E-09	3.367E-09	1.539E-09	6.689E-10
8.65631E-01	1.302E-08	1.110E-08	5.991E-09	2.910E-09	1.346E-09
9.44575E-01	2.344E-08	2.214E-08	1.272E-08	6.562E-09	3.212E-09
9.89401E-01	6.713E-08	6.038E-08	3.734E-08	2.039E-08	1.047E-08
TOTAL	6.277E-08	5.337E-08	2.870E-08	1.396E-08	6.499E-09

7.093E-08



## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	-2.021E-04	-1.507E-04	-2.703E-05	3.299E-05	1.454E-04	2.240E-04	3.231E-04	5.228E-04	8.574E-04
4.97E 00--6.36E 00	6.287E-03	6.203E-03	5.931E-03	5.603E-03	5.498E-03	5.798E-03	6.532E-03	7.584E-03	8.787E-03
4.07E 00--4.97E 00	4.287E-03	4.269E-03	4.206E-03	4.115E-03	4.045E-03	4.037E-03	4.118E-03	4.302E-03	4.592E-03
3.01E 00--4.07E 00	2.243E-03	2.243E-03	2.266E-03	2.255E-03	2.273E-03	2.309E-03	2.369E-03	2.662E-03	2.598E-03
2.46E 00--3.01E 00	2.120E-03	2.124E-03	2.138E-03	2.167E-03	2.212E-03	2.277E-03	2.364E-03	2.482E-03	2.639E-03
2.35E 00--2.46E 00	2.663E-03	2.666E-03	2.679E-03	2.706E-03	2.750E-03	2.817E-03	2.913E-03	3.047E-03	3.230E-03
1.83E 00--2.35E 00	1.757E-03	1.761E-03	1.775E-03	1.803E-03	1.847E-03	1.909E-03	1.992E-03	2.101E-03	2.243E-03
1.11E 00--1.83E 00	1.783E-03	1.783E-03	1.799E-03	1.833E-03	1.883E-03	1.953E-03	2.045E-03	2.164E-03	2.317E-03
5.50E 01--1.11E 00	2.778E-03	2.784E-03	2.805E-03	2.848E-03	2.912E-03	3.000E-03	3.115E-03	3.264E-03	3.453E-03
1.11E 01--5.50E 01	3.990E-03	3.900E-03	3.922E-03	3.963E-03	4.025E-03	4.107E-03	4.211E-03	4.339E-03	4.494E-03
3.35E 02--1.11E 01	1.998E-02	2.000E-02	2.004E-02	2.013E-02	2.026E-02	2.042E-02	2.062E-02	2.086E-02	2.113E-02
5.83E 04--3.35E 02	1.586E-02	1.587E-02	1.589E-02	1.594E-02	1.600E-02	1.608E-02	1.617E-02	1.628E-02	1.640E-02
1.01E 04--5.83E 04	9.006E-01	9.009E-01	9.019E-01	9.038E-01	9.065E-01	9.100E-01	9.140E-01	9.186E-01	9.235E-01
2.90E 05--1.01E 04	3.764E 00	3.765E 00	3.768E 00	3.775E 00	3.785E 00	3.797E 00	3.811E 00	3.827E 00	3.844E 00
1.07E 05--2.90E 05	1.074E 01	1.074E 01	1.075E 01	1.077E 01	1.079E 01	1.082E 01	1.086E 01	1.090E 01	1.094E 01
3.04E 06--1.07E 05	2.808E 01	2.809E 01	2.811E 01	2.815E 01	2.821E 01	2.828E 01	2.837E 01	2.847E 01	2.857E 01
1.12E 06--3.04E 06	7.394E 01	7.395E 01	7.401E 01	7.411E 01	7.425E 01	7.443E 01	7.464E 01	7.487E 01	7.512E 01
4.14E 07--1.12E 06	1.594E 02	1.595E 02	1.595E 02	1.598E 02	1.601E 02	1.604E 02	1.609E 02	1.613E 02	1.618E 02
0.0 ----4.14E 07	2.281E 02	2.281E 02	2.283E 02	2.286E 02	2.291E 02	2.295E 02	2.301E 02	2.306E 02	2.312E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	1.283E-03	1.651E-03	4.502E-03	1.094E-02	3.681E-02	1.070E-01	2.897E-01	1.662E 00	5.105E-01
4.97E 00--6.36E 00	1.033E-02	1.330E-02	1.505E-02	1.434E-02	1.778E-02	2.915E-02	4.663E-02	6.549E-02	1.607E-01
4.07E 00--4.97E 00	5.146E-03	5.905E-03	6.356E-03	6.746E-03	8.268E-03	1.122E-02	1.399E-02	1.660E-02	7.422E-02
3.01E 00--4.07E 00	2.851E-03	3.209E-03	3.474E-03	3.722E-03	4.416E-03	5.728E-03	7.291E-03	8.901E-03	4.051E-02
2.46E 00--3.01E 00	2.902E-03	3.264E-03	3.538E-03	3.783E-03	4.438E-03	5.703E-03	7.291E-03	9.110E-03	4.068E-02
2.35E 00--2.46E 00	3.531E-03	3.961E-03	4.291E-03	4.593E-03	5.366E-03	6.837E-03	8.672E-03	1.077E-02	4.951E-02
1.83E 00--2.35E 00	2.477E-03	2.798E-03	3.024E-03	3.200E-03	3.733E-03	4.826E-03	6.241E-03	7.891E-03	5.449E-02
1.11E 00--1.83E 00	2.575E-03	2.920E-03	3.164E-03	3.328E-03	3.896E-03	5.095E-03	6.650E-03	8.413E-03	3.588E-02
5.50E 01--1.11E 00	3.760E-03	4.174E-03	4.61E-03	4.682E-03	5.342E-03	6.641E-03	8.311E-03	1.012E-02	5.109E-02
1.11E 01--5.50E 01	4.720E-03	5.004E-03	5.211E-03	5.331E-03	5.773E-03	6.459E-03	7.233E-03	7.573E-03	6.091E-02
3.35E 02--1.11E 01	2.155E-02	2.240E-02	2.254E-02	2.142E-02	2.196E-02	2.438E-02	2.362E-02	2.251E-02	2.695E-01
5.83E 04--3.35E 02	1.653E-02	1.666E-02	1.679E-02	1.690E-02	1.702E-02	1.712E-02	1.720E-02	1.724E-02	2.072E-01
1.01E 04--5.83E 04	9.287E-01	9.339E-01	9.390E-01	9.436E-01	9.477E-01	9.512E-01	9.536E-01	9.548E-01	1.165E 01
2.90E 05--1.01E 04	3.862E 00	3.880E 00	3.87E 00	3.912E 00	3.926E 00	3.937E 00	3.945E 00	3.949E 00	4.843E 01
1.07E 05--2.90E 05	1.099E 01	1.104E 01	1.108E 01	1.112E 01	1.115E 01	1.118E 01	1.120E 01	1.121E 01	1.378E 02
3.04E 06--1.07E 05	2.868E 01	2.878E 01	2.888E 01	2.897E 01	2.905E 01	2.911E 01	2.916E 01	2.918E 01	3.597E 02
1.12E 06--3.04E 06	7.538E 01	7.563E 01	7.588E 01	7.609E 01	7.628E 01	7.644E 01	7.655E 01	7.660E 01	9.458E 02
4.14E 07--1.12E 06	1.623E 02	1.628E 02	1.633E 02	1.638E 02	1.641E 02	1.645E 02	1.647E 02	1.648E 02	2.037E 03
0.0 ----4.14E 07	2.319E 02	2.325E 02	2.331E 02	2.337E 02	2.342E 02	2.345E 02	2.347E 02	2.348E 02	2.910E 03

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.09894	ANGLE 3 MU=0.09446	ANGLE 4 MU=0.08656	ANGLE 5 MU=0.07550	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	-2.342E-04	-1.710E-04	-6.050E-06	8.652E-05	2.306E-04	3.035E-04	4.038E-04	6.618E-04	1.141E-03
4.97E 00---6.36E 00	7.064E-03	6.947E-03	6.564E-03	6.115E-03	6.003E-03	6.465E-03	7.514E-03	8.951E-03	1.050E-02
3.01E 00---4.97E 00	6.442E-03	6.428E-03	6.382E-03	6.336E-03	6.349E-03	6.473E-03	6.741E-03	7.169E-03	7.770E-03
2.46E 00---3.01E 00	4.273E-03	4.272E-03	4.267E-03	4.267E-03	4.283E-03	4.334E-03	4.436E-03	4.612E-03	4.887E-03
1.83E 00---2.46E 00	4.433E-03	4.440E-03	4.468E-03	4.500E-03	4.620E-03	4.755E-03	4.946E-03	5.212E-03	5.575E-03
1.11E 00---1.83E 00	3.921E-03	3.769E-03	3.793E-03	3.847E-03	3.941E-03	4.093E-03	4.317E-03	4.645E-03	5.078E-03
5.50E-01---1.11E 00	3.925E-03	3.935E-03	3.973E-03	4.048E-03	4.160E-03	4.315E-03	4.517E-03	4.777E-03	5.107E-03
1.11E-01---5.50E-01	6.569E-03	6.583E-03	6.637E-03	6.743E-03	6.901E-03	7.118E-03	7.400E-03	7.759E-03	8.211E-03
3.35E-02---1.11E-01	1.064E-02	1.066E-02	1.072E-02	1.085E-02	1.103E-02	1.127E-02	1.158E-02	1.195E-02	1.239E-02
5.83E-04---3.35E-02	6.447E-02	6.452E-02	6.473E-02	6.511E-02	6.567E-02	6.638E-02	6.724E-02	6.825E-02	6.940E-02
1.01E-04---5.83E-04	5.393E-02	5.396E-02	5.408E-02	5.431E-02	5.463E-02	5.504E-02	5.544E-02	5.611E-02	5.673E-02
2.90E-05---1.01E-04	3.153E-00	3.155E-00	3.161E-00	3.172E-00	3.188E-00	3.208E-00	3.232E-00	3.259E-00	3.289E-00
1.07E-05---2.90E-05	1.338E 01	1.338E 01	1.341E 01	1.345E 01	1.351E 01	1.358E 01	1.367E 01	1.377E 01	1.388E 01
3.06E-06---1.07E-05	3.852E 01	3.853E 01	3.859E 01	3.871E 01	3.887E 01	3.907E 01	3.931E 01	3.958E 01	3.987E 01
1.12E-06---3.06E-06	1.016E 02	1.017E 02	1.018E 02	1.021E 02	1.025E 02	1.030E 02	1.035E 02	1.042E 02	1.049E 02
4.14E-07---1.12E-06	2.692E 02	2.692E 02	2.696E 02	2.703E 02	2.713E 02	2.725E 02	2.739E 02	2.755E 02	2.772E 02
0.0	5.832E 02	5.834E 02	5.841E 02	5.855E 02	5.875E 02	5.899E 02	5.929E 02	5.961E 02	5.996E 02
	8.385E 02	8.388E 02	8.400E 02	8.420E 02	8.447E 02	8.480E 02	8.517E 02	8.556E 02	8.599E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	2.288E-03	2.072E-03	3.868E-03	5.762E-03	1.233E-02	3.607E-02	1.629E-01	1.477E 00	3.646E-01
4.97E 00---6.36E 00	9.996E-03	1.528E-02	1.492E-02	2.094E-02	2.995E-02	3.829E-02	6.527E-02	1.281E-01	2.076E-01
3.01E 00---4.97E 00	1.102E-02	8.077E-03	1.161E-02	1.381E-02	1.531E-02	1.899E-02	2.789E-02	4.149E-02	1.338E-01
2.46E 00---3.01E 00	6.273E-03	5.242E-03	6.785E-03	7.964E-03	8.872E-03	1.185E-02	1.475E-02	2.082E-02	7.970E-02
1.83E 00---2.46E 00	6.985E-03	6.139E-03	7.707E-03	8.995E-03	1.003E-02	1.315E-02	1.627E-02	2.329E-02	8.923E-02
1.11E 00---1.83E 00	6.402E-03	5.528E-03	6.860E-03	7.899E-03	8.554E-03	1.100E-02	1.329E-02	1.886E-02	1.135E-01
5.50E-01---1.11E 00	6.627E-03	5.398E-03	6.775E-03	7.809E-03	8.266E-03	1.065E-02	1.270E-02	1.777E-02	7.780E-02
1.11E-01---5.50E-01	9.955E-03	8.772E-03	1.047E-02	1.169E-02	1.239E-02	1.517E-02	1.751E-02	2.298E-02	1.199E-01
3.35E-02---1.11E-01	1.362E-02	1.311E-02	1.421E-02	1.512E-02	1.565E-02	1.712E-02	1.817E-02	2.005E-02	1.661E-01
5.83E-04---3.35E-02	7.319E-02	7.164E-02	7.194E-02	7.652E-02	7.453E-02	7.796E-02	7.813E-02	7.894E-02	8.882E-01
1.01E-04---5.83E-04	5.740E-02	5.808E-02	5.878E-02	5.944E-02	6.004E-02	6.056E-02	6.095E-02	6.118E-02	7.191E-01
2.90E-05---1.01E-04	3.320E 00	3.352E 00	3.383E 00	3.413E 00	3.439E 00	3.461E 00	3.477E 00	3.486E 00	4.159E 01
1.07E-05---2.90E-05	1.400E 01	1.411E 01	1.423E 01	1.438E 01	1.442E 01	1.450E 01	1.456E 01	1.459E 01	1.754E 02
3.06E-06---1.07E-05	4.017E 01	4.048E 01	4.077E 01	4.105E 01	4.129E 01	4.149E 01	4.163E 01	4.172E 01	5.033E 02
1.12E-06---3.06E-06	1.056E 02	1.064E 02	1.071E 02	1.077E 02	1.083E 02	1.087E 02	1.091E 02	1.093E 02	1.324E 03
4.14E-07---1.12E-06	2.790E 02	2.808E 02	2.825E 02	2.841E 02	2.855E 02	2.866E 02	2.879E 02	2.879E 02	3.497E 03
0.0	6.033E 02	6.069E 02	6.104E 02	6.136E 02	6.164E 02	6.186E 02	6.203E 02	6.212E 02	7.561E 03
	8.644E 02	8.640E 02	8.735E 02	8.777E 02	8.812E 02	8.839E 02	8.857E 02	8.865E 02	1.084E 04

6.36 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	-2.051E-04	-1.459E-04	1.073E-05	1.080E-04	2.509E-04	3.210E-04	4.263E-04	6.997E-04	1.196E-03
4.97E 00---6.36E 00	6.768E-03	6.656E-03	6.289E-03	5.875E-03	5.144E-03	6.333E-03	7.433E-03	8.904E-03	1.047E-02
4.07E 00---4.97E 00	6.908E-03	6.900E-03	6.877E-03	6.873E-03	6.944E-03	7.138E-03	7.484E-03	8.001E-03	8.706E-03
3.01E 00---4.07E 00	5.030E-03	5.030E-03	5.022E-03	5.015E-03	5.030E-03	5.085E-03	5.206E-03	5.420E-03	5.754E-03
2.46E 00---3.01E 00	5.487E-03	5.496E-03	5.531E-03	5.604E-03	5.720E-03	5.892E-03	6.139E-03	6.485E-03	6.961E-03
2.35E 00---2.46E 00	7.242E-03	7.249E-03	7.281E-03	7.352E-03	7.477E-03	7.680E-03	7.990E-03	8.445E-03	9.085E-03
1.83E 00---2.35E 00	5.073E-03	5.084E-03	5.128E-03	5.219E-03	5.361E-03	5.564E-03	5.841E-03	6.207E-03	6.678E-03
1.11E 00---1.83E 00	5.157E-03	5.170E-03	5.221E-03	5.323E-03	5.474E-03	5.682E-03	5.955E-03	6.302E-03	6.736E-03
5.50E 01---1.11E 00	8.871E-03	8.890E-03	8.967E-03	9.118E-03	9.342E-03	9.646E-03	1.004E-02	1.054E-02	1.116E-02
1.11E 01---5.50E 01	1.521E-02	1.524E-02	1.534E-02	1.553E-02	1.580E-02	1.616E-02	1.661E-02	1.715E-02	1.780E-02
3.35E 02---1.11E 01	9.846E-02	9.855E-02	9.890E-02	9.956E-02	1.005E-01	1.017E-01	1.032E-01	1.049E-01	1.068E-01
5.82E 04---3.35E 02	8.430E-02	8.436E-02	8.458E-02	8.500E-02	8.558E-02	8.633E-02	8.722E-02	8.825E-02	8.938E-02
1.01E 04---5.82E 04	5.009E-02	5.012E 00	5.023E 00	5.045E 00	5.075E 00	5.113E 00	5.158E 00	5.210E 00	5.267E 00
2.90E 05---1.01E 04	2.145F 01	2.146E 01	2.153E 01	2.158E 01	2.170E 01	2.185E 01	2.202E 01	2.222E 01	2.244E 01
1.07E 05---2.90E 05	6.213E 01	6.216E 01	6.228E 01	6.250E 01	6.282E 01	6.322E 01	6.370E 01	6.424E 01	6.483E 01
3.06E 06---1.07E 05	1.650E 02	1.650E 02	1.653E 02	1.659E 02	1.667E 02	1.677E 02	1.688E 02	1.702E 02	1.716E 02
1.12E 06---3.06E 06	4.388E 02	4.390E 02	4.397E 02	4.411E 02	4.431E 02	4.456E 02	4.485E 02	4.518E 02	4.554E 02
4.14E 07---1.12E 06	9.541E 02	9.545E 02	9.561E 02	9.590E 02	9.631E 02	9.682E 02	9.742E 02	9.810E 02	9.884E 02
0.0 ---4.14E 07	1.377E 03	1.378E 03	1.380E 03	1.384E 03	1.390E 03	1.397E 03	1.404E 03	1.413E 03	1.422E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	1.599E-03	2.864E-03	3.475E-03	6.284E-03	1.256E-02	3.194E-02	1.213E-01	1.236E 00	3.053E-01
4.97E 00---6.36E 00	1.308E-02	1.269E-02	1.685E-02	1.936E-02	2.830E-02	4.234E-02	6.983E-02	1.411E-01	2.133E-01
4.07E 00---4.97E 00	8.311E-03	1.207E-02	1.170E-02	1.616E-02	1.840E-02	2.548E-02	3.390E-02	5.113E-02	1.506E-01
2.01E 00---4.07E 00	5.710E-03	7.437E-03	7.561E-03	9.705E-03	1.105E-02	1.431E-02	1.829E-02	2.558E-02	9.429E-02
2.46E 00---2.01E 00	7.129E-03	8.935E-03	9.209E-03	1.165E-02	1.326E-02	1.593E-02	2.153E-02	3.063E-02	1.124E-01
2.35E 00---2.46E 00	9.440E-03	1.164E-02	1.232E-02	1.524E-02	1.743E-02	2.204E-02	2.793E-02	3.948E-02	1.471E-01
1.83E 00---2.35E 00	6.798E-03	8.462E-03	8.640E-03	1.056E-02	1.160E-02	1.432E-02	1.748E-02	2.415E-02	1.022E-01
1.11E 00---1.83E 00	6.650E-03	8.480E-03	8.349E-03	1.025E-02	1.094E-02	1.339E-02	1.591E-02	2.138E-02	9.91E-02
5.50E 01---1.11E 00	1.126E-02	1.344E-02	1.355E-02	1.587E-02	1.693E-02	1.988E-02	2.289E-02	2.892E-02	1.601E-01
3.35E 02---1.11E 01	1.810E-02	1.075E-02	2.010E-02	2.169E-02	2.249E-02	2.414E-02	2.544E-02	2.738E-02	2.366E-01
1.11E 01---5.50E 01	1.071E-01	1.123E-01	1.126E-01	1.163E-01	1.176E-01	1.200E-01	1.225E-01	1.255E-01	1.364E 00
8.01E 04---3.35E 02	9.061E-02	9.186E-02	9.311E-02	9.431E-02	9.540E-02	9.634E-02	9.703E-02	9.745E-02	1.135E 00
1.01E 04---5.82E 04	5.327E 00	5.389E 00	5.449E 00	5.506E 00	5.558E 00	5.600E 00	5.632E 00	5.650E 00	6.670E 01
2.90E 05---1.01E 04	2.266E 01	2.289F 01	2.312E 01	2.333E 01	2.352E 01	2.367E 01	2.378E 01	2.385E 01	2.839E 02
1.07E 05---2.90E 05	6.544E 01	6.606E 01	6.667E 01	6.724E 01	6.774E 01	6.815E 01	6.845E 01	6.862E 01	8.195E 02
3.06E 06---1.07E 05	1.731E 02	1.746E 02	1.761E 02	1.775E 02	1.787E 02	1.796E 02	1.804E 02	1.808E 02	2.168E 03
1.12E 06---3.06E 06	4.591E 02	4.629E 02	4.665E 02	4.699E 02	4.729E 02	4.753E 02	4.770E 02	4.780E 02	5.751E 03
4.14E 07---1.12E 06	9.960E 02	1.004F 03	1.011E 03	1.018E 03	1.024E 03	1.029E 03	1.032E 03	1.035E 03	1.248E 04
0.0 ---4.14E 07	1.431E 03	1.441E 03	1.451E 03	1.460E 03	1.467E 03	1.473E 03	1.477E 03	1.479E 03	1.794E 04

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	-1.385E-04	-8.757E-05	1.388E-05	1.292E-04	2.681E-04	2.896E-04	4.02E-04	6.641E-04	1.129E-03
4.97E 00---6.36E 00	5.538E-03	5.451E-03	5.172E-03	4.881E-03	4.909E-03	5.431E-03	6.436E-03	7.733E-03	9.083E-03
4.07E 00---4.97E 00	6.594E-03	6.595E-03	6.08E-03	6.663E-03	6.802E-03	7.060E-03	7.463E-03	8.030E-03	8.788E-03
3.01E 00---4.07E 00	5.428E-03	5.425E-03	5.433E-03	5.402E-03	5.416E-03	5.479E-03	5.620E-03	5.872E-03	6.274E-03
2.46E 00---3.01E 00	6.381E-03	6.391E-03	6.433E-03	6.521E-03	6.661E-03	6.875E-03	7.187E-03	7.634E-03	8.264E-03
2.35E 00---2.46E 00	8.609E-03	8.619E-03	8.64E-03	8.763E-03	8.939E-03	9.224E-03	9.662E-03	1.031E-02	1.123E-02
1.83E 00---2.35E 00	6.423E-03	6.438E-03	6.502E-03	6.630E-03	6.829E-03	7.116E-03	7.510E-03	8.032E-03	8.708E-03
1.11E 00---1.83E 00	6.789E-03	6.807E-03	6.879E-03	7.021E-03	7.232E-03	7.523E-03	7.903E-03	8.386E-03	8.91E-03
5.50E-01---1.11E 00	1.221E-02	1.224E-02	1.235E-02	1.258E-02	1.291E-02	1.337E-02	1.393E-02	1.470E-02	1.562E-02
1.11E-01---5.50E-01	2.269E-02	2.273E-02	2.289E-02	2.319E-02	2.363E-02	2.421E-02	2.493E-02	2.580E-02	2.682E-02
3.35E-02---1.11E-01	1.607E-01	1.609E-01	1.615E-01	1.628E-01	1.645E-01	1.668E-01	1.693E-01	1.727E-01	1.763E-01
5.83E-04---3.35E-02	1.421E-01	1.422E-01	1.427E-01	1.435E-01	1.447E-01	1.462E-01	1.480E-01	1.500E-01	1.523E-01
1.01E-04---5.83E-04	8.650E 00	8.656E 00	8.681E 00	8.727E 00	8.790E 00	8.872E 00	8.969E 00	9.081E 00	9.203E 00
2.90E-05---1.01E-04	3.760E 01	3.762E 01	3.772E 01	3.790E 01	3.816E 01	3.848E 01	3.887E 01	3.932E 01	3.980E 01
1.07E-05---2.90E-05	1.101E 02	1.102E 02	1.104E 02	1.109E 02	1.117E 02	1.126E 02	1.137E 02	1.149E 02	1.163E 02
3.06E-06---1.07E-05	2.957E 02	2.959E 02	2.966E 02	2.979E 02	2.997E 02	3.021E 02	3.049E 02	3.080E 02	3.114E 02
1.12E-06---3.06E-06	7.932E 02	7.936E 02	7.944E 02	7.988E 02	8.035E 02	8.095E 02	8.166E 02	8.246E 02	8.333E 02
4.14E-07---1.12E-06	1.737E 03	1.738E 03	1.742E 03	1.749E 03	1.759E 03	1.772E 03	1.786E 03	1.803E 03	1.822E 03
0.0	2.527E 03	2.529E 03	2.534E 03	2.545E 03	2.558E 03	2.575E 03	2.594E 03	2.615E 03	2.638E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	1.810E-03	2.394E-03	3.509E-03	5.729E-03	1.202E-02	2.847E-02	8.468E-02	8.094E-01	2.147E-01
4.97E 00---6.36E 00	1.012E-02	1.206E-02	1.379E-02	1.795E-02	2.460E-02	3.795E-02	6.533E-02	1.370E-01	1.896E-01
4.07E 00---4.97E 00	1.015E-02	1.091E-02	1.342E-02	1.589E-02	2.061E-02	2.699E-02	3.800E-02	5.714E-02	1.579E-01
3.01E 00---4.07E 00	7.020E-03	7.615E-03	9.045E-03	1.054E-02	1.303E-02	1.617E-02	2.105E-02	2.870E-02	1.055E-01
2.46E 00---3.01E 00	9.252E-03	1.023E-02	1.205E-02	1.412E-02	1.732E-02	2.153E-02	2.895E-02	3.932E-02	1.354E-01
2.35E 00---2.46E 00	1.262E-02	1.413E-02	1.667E-02	1.964E-02	2.403E-02	2.982E-02	3.872E-02	5.410E-02	1.897E-01
1.83E 00---2.35E 00	9.695E-03	1.056E-02	1.212E-02	1.370E-02	1.605E-02	1.886E-02	2.309E-02	3.021E-02	1.347E-01
1.11E 00---1.83E 00	9.918E-03	1.050E-02	1.188E-02	1.303E-02	1.489E-02	1.688E-02	1.988E-02	2.450E-02	1.320E-01
5.50E-01---1.11E 00	1.693E-02	1.794E-02	1.948E-02	2.155E-02	2.406E-02	2.674E-02	3.049E-02	3.586E-02	2.244E-01
1.11E-01---5.50E-01	2.815E-02	2.919E-02	3.095E-02	3.227E-02	3.406E-02	3.566E-02	3.742E-02	3.895E-02	3.554E-01
3.35E-02---1.11E-01	1.811E-01	1.838E-01	1.889E-01	1.924E-01	1.968E-01	1.998E-01	2.027E-01	2.041E-01	2.257E 00
5.83E-04---3.35E-02	1.547E-01	1.573E-01	1.598E-01	1.622E-01	1.644E-01	1.663E-01	1.676E-01	1.684E-01	1.937E 00
1.01E-04---5.83E-04	9.233E 00	9.466E 00	9.593E 00	9.723E 00	9.836E 00	9.929E 00	9.998E 00	1.004E 01	1.168E 02
2.90E-05---1.01E-04	4.032E 01	4.084E 01	4.136E 01	4.184E 01	4.228E 01	4.264E 01	4.290E 01	4.305E 01	5.046E 02
1.07E-05---2.90E-05	1.177E 02	1.192E 02	1.206E 02	1.220E 02	1.231E 02	1.241E 02	1.249E 02	1.253E 02	1.473E 03
3.06E-06---1.07E-05	3.150E 02	3.187E 02	3.223E 02	3.256E 02	3.286E 02	3.31E 02	3.329E 02	3.339E 02	3.943E 03
1.12E-06---3.06E-06	8.425E 02	8.518E 02	8.608E 02	8.693E 02	8.768E 02	8.829E 02	8.874E 02	8.900E 02	1.035E 04
4.14E-07---1.12E-06	1.841E 03	1.860E 03	1.879E 03	1.896E 03	1.912E 03	1.924E 03	1.934E 03	1.939E 03	2.304E 04
0.0	2.662E 03	2.687E 03	2.712E 03	2.735E 03	2.755E 03	2.771E 03	2.781E 03	2.787E 03	3.335E 04

## 6.36 TO 8.187 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	-7.645E-05	-4.506E-05	2.140E-05	1.376E-04	2.044E-04	2.494E-04	3.415E-04	5.633E-04	9.525E-04
4.97E 00---6.36E 00	4.210E-03	4.150E-03	3.959E-03	3.777E-03	3.848E-03	4.298E-03	5.111E-03	6.138E-03	7.197E-03
3.01E 00---4.97E 00	5.557E-03	5.522E-03	5.592E-03	5.671E-03	5.824E-03	6.080E-03	6.456E-03	6.971E-03	7.655E-03
2.46E 00---3.01E 00	6.128E-03	6.138E-03	6.180E-03	6.267E-03	6.408E-03	6.625E-03	6.947E-03	7.415E-03	8.082E-03
2.35E 00---2.46E 00	8.404E-03	8.415E-03	8.468E-03	8.582E-03	8.782E-03	9.105E-03	9.600E-03	1.033E-02	1.137E-02
1.83E 00---2.35E 00	6.648E-03	6.665E-03	6.736E-03	6.881E-03	7.105E-03	7.429E-03	7.873E-03	8.465E-03	9.234E-03
1.11E 00---1.83E 00	7.326E-03	7.346E-03	7.428E-03	7.589E-03	7.827E-03	8.156E-03	8.588E-03	9.136E-03	9.820E-03
5.50E-01---1.11E 00	1.369E-02	1.372E-02	1.387E-02	1.414E-02	1.454E-02	1.508E-02	1.579E-02	1.667E-02	1.777E-02
1.11E-01---5.50E-01	2.700E-02	2.705E-02	2.725E-02	2.764E-02	2.819E-02	2.892E-02	2.982E-02	3.091E-02	3.219E-02
3.35E-02---1.11E-01	2.033E-01	2.036E-01	2.045E-01	2.062E-01	2.086E-01	2.117E-01	2.155E-01	2.199E-01	2.249E-01
5.83E-04---3.35E-02	1.837E-01	1.839E-01	1.845E-01	1.857E-01	1.874E-01	1.895E-01	1.921E-01	1.951E-01	1.984E-01
1.01E-04---5.83E-04	1.138E 01	1.138E 01	1.142E 01	1.149E 01	1.158E 01	1.171E 01	1.185E 01	1.202E 01	1.220E 01
2.90E-05---1.01E-04	5.000E 01	5.003E 01	5.018E 01	5.046E 01	5.085E 01	5.135E 01	5.194E 01	5.262E 01	5.337E 01
1.07E-05---2.90E-05	1.476E 02	1.477E 02	1.482E 02	1.490E 02	1.501E 02	1.515E 02	1.532E 02	1.551E 02	1.573E 02
3.06E-06---1.07E-05	4.003E 02	4.006E 02	4.017E 02	4.038E 02	4.067E 02	4.104E 02	4.148E 02	4.198E 02	4.253E 02
1.12E-06---3.06E-06	1.081E 03	1.082E 03	1.085E 03	1.090E 03	1.098E 03	1.108E 03	1.119E 03	1.132E 03	1.146E 03
4.14E-07---1.12E-06	2.384E 03	2.385E 03	2.392E 03	2.403E 03	2.419E 03	2.440E 03	2.464E 03	2.492E 03	2.522E 03
0.0 ---4.14E-07	3.492E 03	3.494E 03	3.503E 03	3.520E 03	3.542E 03	3.569E 03	3.601E 03	3.636E 03	3.675E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	1.452E-03	2.049E-03	2.918E-03	4.941E-03	1.023E-02	2.386E-02	6.407E-02	5.176E-01	1.501E-01
4.97E 00---6.36E 00	8.252E-03	9.381E-03	1.121E-02	1.440E-02	2.030E-02	3.115E-02	5.356E-02	1.135E-01	1.535E-01
3.01E 00---4.97E 00	8.540E-03	9.887E-03	1.169E-02	1.448E-02	1.856E-02	2.487E-02	3.489E-02	5.256E-02	1.403E-01
2.46E 00---3.01E 00	9.009E-03	1.033E-02	1.210E-02	1.501E-02	1.796E-02	2.273E-02	2.969E-02	4.122E-02	9.837E-02
2.35E 00---2.46E 00	1.281E-02	1.482E-02	1.751E-02	2.121E-02	2.621E-02	3.317E-02	4.331E-02	6.024E-02	1.394E-01
1.83E 00---2.35E 00	1.021E-02	1.148E-02	1.304E-02	1.504E-02	1.752E-02	2.072E-02	2.496E-02	3.156E-02	1.993E-01
1.11E 00---1.83E 00	1.064E-02	1.170E-02	1.291E-02	1.442E-02	1.617E-02	1.831E-02	2.089E-02	2.448E-02	1.441E-01
5.50E-01---1.11E 00	1.907E-02	2.071E-02	2.257E-02	2.481E-02	2.735E-02	3.033E-02	3.376E-02	3.813E-02	2.519E-01
1.11E-01---5.50E-01	3.361E-02	3.528E-02	3.702E-02	3.893E-02	4.084E-02	4.274E-02	4.443E-02	4.576E-02	4.257E-01
3.35E-02---1.11E-01	2.300E-01	2.360E-01	2.415E-01	2.474E-01	2.544E-01	2.570E-01	2.604E-01	2.625E-01	2.881E 00
5.83E-04---3.35E-02	2.019E-01	2.055E-01	2.091E-01	2.125E-01	2.157E-01	2.183E-01	2.202E-01	2.214E-01	2.525E 00
1.01E-04---5.83E-04	1.239E 01	1.259E 01	1.279E 01	1.298E 01	1.315E 01	1.329E 01	1.339E 01	1.345E 01	1.550E 00
2.90E-05---1.01E-04	5.416E 01	5.497E 01	5.576E 01	5.651E 01	5.718E 01	5.774E 01	5.815E 01	5.839E 01	6.775E 02
1.07E-05---2.90E-05	1.595E 02	1.618E 02	1.641E 02	1.662E 02	1.681E 02	1.697E 02	1.706E 02	1.715E 02	1.995E 03
3.06E-06---1.07E-05	4.311E 02	4.370E 02	4.428E 02	4.483E 02	4.531E 02	4.576E 02	4.600E 02	4.617E 02	5.393E 03
1.12E-06---3.06E-06	1.161E 03	1.176E 03	1.191E 03	1.205E 03	1.218E 03	1.228E 03	1.235E 03	1.240E 03	1.453E 04
4.14E-07---1.12E-06	2.553E 03	2.585E 03	2.617E 03	2.646E 03	2.672E 03	2.694E 03	2.709E 03	2.718E 03	3.195E 04
0.0 ---4.14E-07	3.716E 03	3.758E 03	3.800E 03	3.839E 03	3.873E 03	3.899E 03	3.918E 03	3.928E 03	4.652E 04

## 4 PI R\*2 FLUENCE AT 500.0 METERS

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	-4.065E-05	-1.958E-05	2.932E-05	1.109E-04	1.585E-04	1.964E-04	2.741E-04	4.526E-04	7.529E-04
4.97E 00--6.36E 00	3.040E-03	3.040E-03	2.915E-03	2.809E-03	2.892E-03	3.249E-03	3.867E-03	4.635E-03	5.425E-03
4.07E 00--4.97E 00	4.381E-03	4.399E-03	4.423E-03	4.502E-03	4.643E-03	4.844E-03	5.180E-03	5.607E-03	6.175E-03
3.01E 00--4.07E 00	4.112E-03	4.109E-03	4.099E-03	4.093E-03	4.107E-03	4.162E-03	4.285E-03	4.503E-03	4.852E-03
2.46E 00--3.01E 00	5.303E-03	5.311E-03	5.349E-03	5.427E-03	5.555E-03	5.753E-03	6.050E-03	6.486E-03	7.112E-03
2.35E 00--2.46E 00	7.366E-03	7.378E-03	7.432E-03	7.549E-03	7.751E-03	8.072E-03	8.562E-03	9.281E-03	1.031E-02
1.83E 00--2.35E 00	6.145E-03	6.162E-03	6.235E-03	6.376E-03	6.598E-03	6.918E-03	7.358E-03	7.945E-03	8.712E-03
1.11E 00--1.83E 00	7.046E-03	7.066E-03	7.149E-03	7.309E-03	7.548E-03	7.877E-03	8.310E-03	8.861E-03	9.548E-03
5.50E 01--1.11E 00	1.364E-02	1.368E-02	1.382E-02	1.411E-02	1.453E-02	1.510E-02	1.584E-02	1.677E-02	1.792E-02
1.11E 01--5.50E 01	2.823E-02	2.829E-02	2.851E-02	2.893E-02	2.953E-02	3.032E-02	3.132E-02	3.251E-02	3.390E-02
3.35E 02--1.11E 01	2.227E-01	2.229E-01	2.240E-01	2.260E-01	2.288E-01	2.325E-01	2.369E-01	2.420E-01	2.478E-01
5.83E 04--3.35E 02	2.043E-01	2.045E-01	2.053E-01	2.067E-01	2.087E-01	2.113E-01	2.143E-01	2.179E-01	2.218E-01
1.01E 04--5.83E 04	1.281E 01	1.282E 01	1.287E 01	1.295E 01	1.307E 01	1.321E 01	1.339E 01	1.360E 01	1.382E 01
2.90E 05--1.01E 04	5.678E 01	5.683E 01	5.702E 01	5.736E 01	5.784E 01	5.845E 01	5.920E 01	6.005E 01	6.098E 01
1.07E 05--2.90E 05	1.687E 02	1.689E 02	1.698E 02	1.704E 02	1.718E 02	1.735E 02	1.758E 02	1.782E 02	1.809E 02
3.06E 06--1.07E 05	4.610E 02	4.614E 02	4.628E 02	4.655E 02	4.692E 02	4.739E 02	4.795E 02	4.860E 02	4.930E 02
1.12E 06--3.06E 06	1.253E 03	1.253E 03	1.257E 03	1.264E 03	1.274E 03	1.286E 03	1.301E 03	1.318E 03	1.336E 03
4.14E 07--1.12E 06	2.776E 03	2.778E 03	2.786E 03	2.801E 03	2.822E 03	2.848E 03	2.880E 03	2.916E 03	2.956E 03
0.0	4.089E 03	4.092E 03	4.106E 03	4.126E 03	4.154E 03	4.190E 03	4.232E 03	4.279E 03	4.330E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	1.143E-03	1.606E-03	2.325E-03	3.975E-03	8.215E-03	1.887E-02	4.811E-02	3.289E-01	1.041E-01
4.97E 00--6.36E 00	6.202E-03	7.117E-03	8.544E-03	1.112E-02	1.581E-02	2.435E-02	4.145E-02	8.682E-02	1.176E-01
4.07E 00--4.97E 00	6.942E-03	8.020E-03	9.598E-03	1.194E-02	1.546E-02	2.080E-02	2.918E-02	4.349E-02	1.149E-01
3.01E 00--4.07E 00	5.376E-03	6.131E-03	7.199E-03	8.674E-03	1.069E-02	1.340E-02	1.708E-02	2.266E-02	8.347E-02
2.46E 00--3.01E 00	8.000E-03	9.241E-03	1.097E-02	1.336E-02	1.667E-02	2.131E-02	2.800E-02	3.853E-02	1.260E-01
2.35E 00--2.46E 00	1.175E-02	1.374E-02	1.647E-02	2.023E-02	2.540E-02	3.261E-02	4.299E-02	5.959E-02	1.870E-01
1.83E 00--2.35E 00	9.697E-03	1.095E-02	1.254E-02	1.453E-02	1.703E-02	2.015E-02	2.414E-02	2.970E-02	1.373E-01
1.11E 00--1.83E 00	1.039E-02	1.141E-02	1.265E-02	1.410E-02	1.581E-02	1.776E-02	1.998E-02	2.259E-02	1.389E-01
5.50E 01--1.11E 00	1.932E-02	3.255E-02	2.294E-02	2.521E-02	2.779E-02	3.064E-02	3.373E-02	3.709E-02	2.539E-01
3.35E 02--1.11E 01	2.541E-01	3.725E-02	3.915E-02	4.115E-02	4.316E-02	4.507E-02	4.671E-02	4.785E-02	4.483E-01
5.83E 04--3.35E 02	2.260E-01	2.303E-01	2.346E-01	2.387E-01	2.424E-01	2.459E-01	2.478E-01	2.492E-01	3.177E 00
1.01E 04--5.83E 04	1.406E 01	1.430E 01	1.455E 01	1.478E 01	1.498E 01	1.515E 01	1.528E 01	1.535E 01	1.758E 02
2.90E 05--1.01E 04	6.196E 01	6.297E 01	6.397E 01	6.491E 01	6.575E 01	6.645E 01	6.696E 01	6.726E 01	7.748E 02
1.07E 05--2.90E 05	1.837E 02	1.866E 02	1.895E 02	1.922E 02	1.946E 02	1.966E 02	1.981E 02	1.990E 02	2.298E 03
3.06E 06--1.07E 05	5.005E 02	5.081E 02	5.155E 02	5.226E 02	5.289E 02	5.340E 02	5.379E 02	5.401E 02	6.259E 03
1.12E 06--3.06E 06	1.356E 03	1.376E 03	1.395E 03	1.413E 03	1.430E 03	1.443E 03	1.453E 03	1.459E 03	1.656E 04
4.14E 07--1.12E 06	2.997E 03	3.040E 03	3.081E 03	3.120E 03	3.155E 03	3.184E 03	3.204E 03	3.217E 03	3.749E 04
0.0	4.385E 03	4.441E 03	4.497E 03	4.549E 03	4.595E 03	4.631E 03	4.656E 03	4.670E 03	5.488E 04

4 PI R\*2 FLUENCE AT 600.0 METERS

6.36 TO 8.187 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	-1.968E-05	-6.074E-06	2.303E-05	8.514E-05	1.182E-04	1.487E-04	2.115E-04	3.480E-04	5.714E-04
4.97E 00--6.36E 00	2.199E-03	2.174E-03	2.095E-03	2.036E-03	2.114E-03	2.384E-03	2.836E-03	3.392E-03	3.965E-03
3.31E 00--4.97E 00	3.322E-03	3.322E-03	3.354E-03	3.423E-03	3.540E-03	3.719E-03	3.948E-03	4.303E-03	4.747E-03
3.01E 00--4.07E 00	3.234E-03	3.232E-03	3.225E-03	3.221E-03	3.234E-03	3.281E-03	3.383E-03	3.535E-03	3.851E-03
2.46E 00--3.01E 00	4.397E-03	4.304E-03	4.336E-03	4.402E-03	4.510E-03	4.679E-03	4.934E-03	5.310E-03	5.855E-03
1.83E 00--2.46E 00	6.034E-03	6.046E-03	6.097E-03	6.207E-03	6.393E-03	6.687E-03	7.131E-03	7.781E-03	8.710E-03
1.35E 00--1.83E 00	5.298E-03	5.298E-03	5.363E-03	5.494E-03	5.695E-03	5.986E-03	6.386E-03	6.921E-03	7.621E-03
1.11E 00--1.35E 00	6.283E-03	6.301E-03	6.377E-03	6.524E-03	6.744E-03	7.048E-03	7.447E-03	7.956E-03	8.592E-03
5.50E 01--1.11E 00	1.256E-02	1.260E-02	1.274E-02	1.301E-02	1.342E-02	1.397E-02	1.468E-02	1.558E-02	1.669E-02
1.11E 01--5.50E 01	2.710E-02	2.710E-02	2.737E-02	2.779E-02	2.839E-02	2.919E-02	3.017E-02	3.136E-02	3.275E-02
3.35E 02--1.11E 01	2.218E-01	2.221E-01	2.232E-01	2.253E-01	2.282E-01	2.320E-01	2.366E-01	2.420E-01	2.480E-01
5.83E 02--3.35E 02	2.059E-01	2.061E-01	2.070E-01	2.085E-01	2.106E-01	2.133E-01	2.169E-01	2.204E-01	2.245E-01
1.01E 04--5.83E 04	1.304E 01	1.305E 01	1.313E 01	1.319E 01	1.331E 01	1.348E 01	1.367E 01	1.389E 01	1.413E 01
2.90E 05--1.01E 04	5.818E 01	5.822E 01	5.843E 01	5.881E 01	5.933E 01	6.001E 01	6.082E 01	6.174E 01	6.276E 01
1.07E 05--2.90E 05	1.737E 02	1.739E 02	1.745E 02	1.756E 02	1.771E 02	1.791E 02	1.815E 02	1.842E 02	1.871E 02
3.04E 06--1.07E 05	4.776E 02	4.780E 02	4.790E 02	4.825E 02	4.866E 02	4.919E 02	4.981E 02	5.053E 02	5.132E 02
1.12E 06--3.04E 06	1.303E 03	1.304E 03	1.309E 03	1.316E 03	1.327E 03	1.341E 03	1.358E 03	1.377E 03	1.398E 03
4.14E 07--1.12E 06	2.901E 03	2.903E 03	2.912E 03	2.929E 03	2.953E 03	2.983E 03	3.019E 03	3.060E 03	3.105E 03
0.0	4.293E 03	4.297E 03	4.310E 03	4.335E 03	4.367E 03	4.408E 03	4.456E 03	4.509E 03	4.568E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	8.610E-04	1.214E-03	1.780E-03	3.075E-03	6.336E-03	1.435E-02	3.536E-02	2.086E-01	7.176E-02
4.97E 00--6.36E 00	4.538E-03	5.230E-03	6.329E-03	8.315E-03	1.191E-02	1.838E-02	3.096E-02	6.340E-02	8.712E-02
4.07E 00--4.97E 00	5.353E-03	6.213E-03	7.475E-03	9.360E-03	1.218E-02	1.643E-02	2.298E-02	3.378E-02	8.936E-02
3.01E 00--4.07E 00	4.282E-03	4.907E-03	5.783E-03	7.003E-03	8.646E-03	1.083E-02	1.370E-02	1.748E-02	6.667E-02
2.46E 00--3.01E 00	6.631E-03	7.725E-03	9.255E-03	1.139E-02	1.437E-02	1.854E-02	2.448E-02	3.348E-02	1.062E-01
2.35E 00--2.46E 00	1.002E-02	1.184E-02	1.436E-02	1.787E-02	2.274E-02	2.959E-02	3.940E-02	5.456E-02	1.631E-01
1.83E 00--2.35E 00	8.524E-03	9.678E-03	1.114E-02	1.298E-02	1.528E-02	1.812E-02	2.162E-02	2.611E-02	1.212E-01
1.11E 00--1.83E 00	9.373E-03	1.032E-02	1.145E-02	1.278E-02	1.431E-02	1.603E-02	1.786E-02	1.975E-02	1.250E-01
5.50E 01--1.11E 00	1.803E-02	1.963E-02	2.150E-02	2.366E-02	2.608E-02	2.868E-02	3.135E-02	3.391E-02	2.366E-01
1.11E 01--5.50E 01	3.433E-02	3.607E-02	3.796E-02	3.922E-02	4.187E-02	4.368E-02	4.519E-02	4.619E-02	2.332E-01
3.35E 02--1.11E 01	2.645E-01	2.614E-01	2.683E-01	2.751E-01	2.813E-01	2.866E-01	2.906E-01	2.929E-01	3.183E 00
5.83E 02--3.35E 02	2.290E-01	2.336E-01	2.381E-01	2.425E-01	2.464E-01	2.497E-01	2.522E-01	2.536E-01	2.862E 00
1.01E 04--5.83E 04	1.439E 01	1.465E 01	1.492E 01	1.516E 01	1.539E 01	1.557E 01	1.571E 01	1.579E 01	1.799E 02
2.90E 05--1.01E 04	6.384E 01	6.494E 01	6.604E 01	6.707E 01	6.799E 01	6.876E 01	6.932E 01	6.953E 01	7.981E 02
1.07E 05--2.90E 05	1.903E 02	1.935E 02	1.967E 02	1.997E 02	2.024E 02	2.046E 02	2.062E 02	2.072E 02	2.379E 03
3.04E 06--1.07E 05	5.215E 02	5.301E 02	5.385E 02	5.464E 02	5.534E 02	5.596E 02	5.646E 02	5.660E 02	6.521E 03
1.12E 06--3.04E 06	1.420E 03	1.442E 03	1.464E 03	1.485E 03	1.503E 03	1.519E 03	1.530E 03	1.536E 03	1.775E 04
4.14E 07--1.12E 06	3.152E 03	3.200E 03	3.248E 03	3.292E 03	3.332E 03	3.365E 03	3.389E 03	3.403E 03	3.941E 04
0.0	4.631E 03	4.696E 03	4.760E 03	4.820E 03	4.873E 03	4.915E 03	4.944E 03	4.961E 03	5.795E 04

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI 9\*2 FLUENCE AT 900.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	5.055E-07	4.013E-06	1.614E-05	3.160E-05	4.394E-05	5.744E-05	8.354E-05	1.349E-04	2.155E-04
4.97E 00---6.36E 00	7.376E-04	7.314E-04	7.139E-04	7.078E-04	7.469E-04	8.470E-04	1.004E-03	1.193E-03	1.392E-03
3.01E 00---4.97E 00	1.247E-03	1.251E-03	1.267E-03	1.299E-03	1.351E-03	1.425E-03	1.526E-03	1.650E-03	1.840E-03
2.46E 00---3.01E 00	1.302E-03	1.302E-03	1.300E-03	1.300E-03	1.308E-03	1.330E-03	1.376E-03	1.457E-03	1.584E-03
1.82E 00---2.46E 00	1.829E-03	1.833E-03	1.848E-03	1.879E-03	1.931E-03	2.013E-03	2.138E-03	2.324E-03	2.597E-03
1.35E 00---1.82E 00	2.601E-03	2.641E-03	2.673E-03	2.738E-03	2.844E-03	3.009E-03	3.253E-03	3.608E-03	4.114E-03
1.11E 01---1.35E 00	3.383E-03	3.393E-03	3.437E-03	3.521E-03	3.647E-03	3.823E-03	4.055E-03	4.331E-03	4.723E-03
1.01E 04---5.83E-04	7.348E-03	7.370E-03	7.462E-03	7.637E-03	7.895E-03	8.249E-03	8.707E-03	9.288E-03	1.001E-02
1.11E 01---5.50E-01	1.747E-02	1.751E-02	1.766E-02	1.796E-02	1.838E-02	1.893E-02	1.963E-02	2.046E-02	2.144E-02
3.35E 02---3.35E-02	1.552E-01	1.552E-01	1.561E-01	1.577E-01	1.599E-01	1.629E-01	1.664E-01	1.705E-01	1.752E-01
1.47E 01---1.47E-01	1.477E-01	1.477E-01	1.483E-01	1.495E-01	1.512E-01	1.534E-01	1.560E-01	1.590E-01	1.623E-01
1.01E 04---5.83E-04	9.550E 00	9.540E 00	9.580E 00	9.652E 00	9.744E 00	9.881E 00	1.004E 01	1.032E 01	1.042E 01
2.90E 05---1.01E-04	4.308E 01	4.312E 01	4.330E 01	4.361E 01	4.405E 01	4.461E 01	4.529E 01	4.606E 01	4.691E 01
1.07E 05---2.90E-05	1.300E 02	1.301E 02	1.306E 02	1.315E 02	1.329E 02	1.345E 02	1.365E 02	1.388E 02	1.414E 02
3.04E 06---1.07E-05	3.617E 02	3.620E 02	3.634E 02	3.660E 02	3.695E 02	3.741E 02	3.795E 02	3.857E 02	3.926E 02
1.12E 06---3.04E-06	9.945E 02	9.974E 02	1.001E 03	1.008E 03	1.017E 03	1.030E 03	1.044E 03	1.061E 03	1.079E 03
4.14E 07---1.12E-06	2.238E 03	2.240E 03	2.248E 03	2.263E 03	2.284E 03	2.310E 03	2.342E 03	2.379E 03	2.419E 03
0.0 ---4.14E-07	3.344E 03	3.347E 03	3.359E 03	3.381E 03	3.410E 03	3.447E 03	3.490E 03	3.539E 03	3.592E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	3.209E-04	4.550E-04	6.962E-04	1.231E-03	2.512E-03	5.482E-03	1.263E-02	5.314E-02	2.267E-02
4.97E 00---6.36E 00	1.602E-03	1.873E-03	2.315E-03	3.106E-03	4.507E-03	6.950E-03	1.136E-02	2.141E-02	3.152E-02
3.01E 00---4.97E 00	2.059E-03	2.448E-03	2.978E-03	3.770E-03	4.946E-03	6.674E-03	9.191E-03	1.289E-02	3.526E-02
2.46E 00---3.01E 00	1.775E-03	2.051E-03	2.438E-03	2.967E-03	3.667E-03	4.566E-03	5.660E-03	6.879E-03	2.764E-02
1.82E 00---2.46E 00	2.911E-03	3.553E-03	4.352E-03	5.483E-03	7.081E-03	9.331E-03	1.248E-02	1.683E-02	4.939E-02
1.35E 00---1.82E 00	4.831E-03	5.847E-03	7.289E-03	9.348E-03	1.230E-02	1.653E-02	2.270E-02	3.162E-02	8.346E-02
1.11E 01---1.35E 00	1.088E-02	1.191E-02	1.313E-02	1.451E-02	1.602E-02	1.759E-02	1.907E-02	2.020E-02	1.427E-01
1.11E 01---5.50E-01	2.255E-02	2.377E-02	2.508E-02	2.644E-02	2.776E-02	2.897E-02	2.993E-02	3.033E-02	2.843E-01
3.35E 02---3.35E-02	1.802E-01	1.855E-01	1.909E-01	1.960E-01	2.008E-01	2.048E-01	2.079E-01	2.096E-01	2.252E 00
1.01E 04---5.83E-04	1.658E-01	1.695E-01	1.731E-01	1.766E-01	1.797E-01	1.823E-01	1.842E-01	1.854E-01	2.072E 00
2.90E 05---1.01E-04	1.063E 01	1.085E 01	1.107E 01	1.127E 01	1.146E 01	1.161E 01	1.172E 01	1.179E 01	1.329E 02
1.07E 05---2.90E-05	4.782E 01	4.875E 01	4.967E 01	5.053E 01	5.131E 01	5.196E 01	5.243E 01	5.271E 01	5.975E 02
3.04E 06---1.07E-05	1.441E 02	1.468E 02	1.495E 02	1.521E 02	1.544E 02	1.563E 02	1.577E 02	1.585E 02	1.800E 03
1.12E 06---3.04E-06	3.998E 02	4.073E 02	4.146E 02	4.215E 02	4.277E 02	4.328E 02	4.366E 02	4.388E 02	4.996E 03
4.14E 07---1.12E-06	1.099E 03	1.119E 03	1.138E 03	1.157E 03	1.173E 03	1.187E 03	1.197C 03	1.203E 03	1.373E 04
0.0 ---4.14E-07	2.462E 03	2.505E 03	2.548E 03	2.588E 03	2.624E 03	2.654E 03	2.676E 03	2.688E 03	3.077E 04
	3.649E 03	3.709E 03	3.767E 03	3.822E 03	3.870E 03	3.909E 03	3.937E 03	3.953E 03	4.564E 04



## 4 PI R\*2 FLUENCE AT 1200.0 METERS

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	1.752E-06	2.723E-06	6.141E-06	1.063E-05	1.467E-05	1.968E-05	2.894E-05	4.602E-05	7.213E-05
4.97E 00--6.36E 00	2.304E-04	2.290E-04	2.256E-04	2.268E-04	2.416E-04	2.744E-04	3.238E-04	3.835E-04	4.475E-04
4.07E 00--4.97E 00	4.175E-04	4.189E-04	4.249E-04	4.368E-04	4.551E-04	4.812E-04	5.163E-04	5.630E-04	6.263E-04
3.01E 00--4.07E 00	4.503E-04	4.501E-04	4.596E-04	4.500E-04	4.533E-04	4.622E-04	4.720E-04	4.839E-04	5.052E-04
2.46E 00--3.01E 00	6.503E-04	6.516E-04	6.698E-04	6.698E-04	6.902E-04	7.118E-04	7.351E-04	7.611E-04	7.952E-04
2.35E 00--2.46E 00	9.541E-04	9.574E-04	9.717E-04	1.001E-03	1.047E-03	1.118E-03	1.221E-03	1.371E-03	1.584E-03
1.83E 00--2.35E 00	1.033E-03	1.037E-03	1.053E-03	1.085E-03	1.135E-03	1.202E-03	1.298E-03	1.428E-03	1.597E-03
1.11E 00--1.83E 00	1.435E-03	1.440E-03	1.459E-03	1.496E-03	1.552E-03	1.630E-03	1.733E-03	1.865E-03	2.031E-03
5.50E-01--1.11E 00	3.326E-03	3.336E-03	3.380E-03	3.464E-03	3.587E-03	3.757E-03	3.978E-03	4.259E-03	4.606E-03
1.11E-01--5.50E-01	8.498E-03	8.517E-03	8.598E-03	8.747E-03	8.963E-03	9.249E-03	9.606E-03	1.004E-02	1.054E-02
3.35E-02--1.11E-01	7.966E-02	7.977E-02	8.025E-02	8.111E-02	8.235E-02	8.395E-02	8.595E-02	8.816E-02	9.070E-02
5.83E-04--3.35E-02	7.704E-02	7.713E-02	7.749E-02	7.815E-02	7.909E-02	8.029E-02	8.174E-02	8.341E-02	8.525E-02
1.01E-04--5.83E-04	5.041E 00	5.046E 00	5.069F 00	5.110E 00	5.167E 00	5.241E 00	5.330E 00	5.432E 00	5.545E 00
2.90E-05--1.01E-04	2.298E 01	2.300E 01	2.310E 01	2.328E 01	2.353E 01	2.385E 01	2.424E 01	2.468E 01	2.517E 01
1.07E-05--2.90E-05	6.978E 01	6.985E 01	7.015E 01	7.088E 01	7.144E 01	7.240E 01	7.356E 01	7.489E 01	7.635E 01
3.06E-06--1.07E-05	1.957E 02	1.959E 02	1.967E 02	1.982E 02	2.002E 02	2.029E 02	2.061E 02	2.097E 02	2.137E 02
1.12E-06--3.06E-06	5.424E 02	5.429E 02	5.451E 02	5.491E 02	5.547E 02	5.619E 02	5.704E 02	5.803E 02	5.911E 02
4.14E-07--1.12E-06	1.225E 03	1.226E 03	1.231E 03	1.239E 03	1.252E 03	1.268E 03	1.287E 03	1.308E 03	1.332E 03
0.0 ----4.14E-07	1.842E 03	1.843E 03	1.851E 03	1.863E 03	1.881E 03	1.903E 03	1.928E 03	1.957E 03	1.989E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	1.069E-04	1.553E-04	2.420E-04	4.341E-04	8.741E-04	1.853E-03	4.066E-03	1.259E-02	6.880E-03
4.97E 00--6.36E 00	5.184E-04	6.139E-04	7.711E-04	1.049E-03	1.530E-03	2.345E-03	3.735E-03	6.512E-03	1.033E-02
4.07E 00--4.97E 00	7.140E-04	8.415E-04	1.030E-03	1.311E-03	1.728E-03	2.312E-03	3.129E-03	4.202E-03	1.206E-02
3.01E 00--4.07E 00	6.251E-04	7.251E-04	8.645E-04	1.053E-03	1.298E-03	1.604E-03	1.956E-03	2.501E-03	9.683E-03
2.46E 00--3.01E 00	1.114E-03	1.342E-03	1.669E-03	2.137E-03	2.804E-03	3.747E-03	5.052E-03	6.754E-03	1.913E-02
2.35E 00--2.46E 00	1.888E-03	2.323E-03	2.953E-03	3.872E-03	5.225E-03	7.226E-03	1.016E-02	1.431E-02	3.429E-02
1.83E 00--2.35E 00	1.819E-03	2.107E-03	2.475E-03	2.941E-03	3.517E-03	4.233E-03	4.984E-03	5.735E-03	2.635E-02
1.11E 00--1.83E 00	2.236E-03	2.484E-03	2.779E-03	3.121E-03	3.502E-03	3.900E-03	4.271E-03	4.543E-03	2.978E-02
5.50E-01--1.11E 00	5.029E-03	5.534E-03	6.125E-03	6.797E-03	7.527E-03	8.271E-03	8.946E-03	9.424E-03	6.608E-02
1.11E-01--5.50E-01	1.111E-02	1.174E-02	1.242E-02	1.312E-02	1.380E-02	1.441E-02	1.490E-02	1.519E-02	1.401E-01
3.35E-02--1.11E-01	9.346E-02	9.636E-02	9.929E-02	1.021E-01	1.047E-01	1.069E-01	1.086E-01	1.096E-01	1.168E 00
5.83E-04--3.35E-02	8.723E-02	8.927E-02	9.130E-02	9.324E-02	9.498E-02	9.643E-02	9.750E-02	9.813E-02	1.089E 00
1.01E-04--5.83E-04	5.655E 00	5.789E 00	5.912E 00	6.028E 00	6.133E 00	6.220E 00	6.284E 00	6.321E 00	7.076E 01
2.90E-05--1.01E-04	2.569E 01	2.622E 01	2.675E 01	2.725E 01	2.770E 01	2.807E 01	2.834E 01	2.850E 01	3.209E 02
1.07E-05--2.90E-05	7.791E 01	7.950E 01	8.108E 01	8.257E 01	8.391E 01	8.502E 01	8.583E 01	8.630E 01	9.732E 02
3.06E-06--1.07E-05	2.179E 02	2.223E 02	2.266E 02	2.307E 02	2.343E 02	2.373E 02	2.395E 02	2.408E 02	2.723E 03
1.12E-06--3.06E-06	6.025E 02	6.143E 02	6.259E 02	6.368E 02	6.466E 02	6.547E 02	6.606E 02	6.641E 02	7.527E 03
4.14E-07--1.12E-06	1.358E 03	1.383E 03	1.409E 03	1.433E 03	1.455E 03	1.472E 03	1.485E 03	1.493E 03	1.696E 04
0.0 ----4.14E-07	2.024E 03	2.059E 03	2.095E 03	2.128E 03	2.157E 03	2.180E 03	2.197E 03	2.206E 03	2.530E 04

4 PI R\*\*2 FLUENCE AT 1500.0 METERS

6.36 TO 8.187 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	8.686E-07	1.132E-06	2.374E-06	3.352E-06	4.616E-06	6.298E-06	9.303E-06	1.461E-05	2.262E-05
4.97E 00--6.36E 00	6.901E-05	6.874E-05	6.819E-05	6.719E-05	7.416E-05	8.425E-05	9.910E-05	1.170E-04	1.367E-04
4.07E 00--4.97E 00	1.309E-04	1.313E-04	1.334E-04	1.373E-04	1.436E-04	1.516E-04	1.629E-04	1.779E-04	1.983E-04
3.01E 00--4.07E 00	1.434E-04	1.438E-04	1.433E-04	1.435E-04	1.448E-04	1.478E-04	1.536E-04	1.634E-04	1.788E-04
2.46E 00--3.01E 00	2.105E-04	2.109E-04	2.130E-04	2.173E-04	2.245E-04	2.358E-04	2.532E-04	2.793E-04	3.178E-04
2.35E 00--2.46E 00	3.133E-04	3.146E-04	3.201E-04	3.311E-04	3.485E-04	3.748E-04	4.129E-04	4.676E-04	5.456E-04
1.83E 00--2.35E 00	3.647E-04	3.661E-04	3.722E-04	3.840E-04	4.021E-04	4.281E-04	4.638E-04	5.120E-04	5.759E-04
1.11E 00--1.83E 00	5.322E-04	5.340E-04	5.413E-04	5.554E-04	5.766E-04	6.045E-04	6.457E-04	6.945E-04	7.602E-04
5.50E 01--1.11E 00	1.296E-03	1.301E-03	1.318E-03	1.352E-03	1.402E-03	1.471E-03	1.561E-03	1.675E-03	1.817E-03
1.11E 01--5.50E 01	3.499E-03	3.507E-03	3.542E-03	3.606E-03	3.698E-03	3.820E-03	3.973E-03	4.158E-03	4.374E-03
3.35E 02--1.11E 01	3.416E-02	3.421E-02	3.443E-02	3.481E-02	3.536E-02	3.608E-02	3.695E-02	3.796E-02	3.910E-02
5.83E 04--3.35E 02	3.342E-02	3.346E-02	3.362E-02	3.392E-02	3.434E-02	3.489E-02	3.554E-02	3.630E-02	3.714E-02
1.01E 04--5.83E 04	2.207E 00	2.209E 00	2.219E 00	2.238E 00	2.264E 00	2.298E 00	2.339E 00	2.386E 00	2.437E 00
2.90E 05--1.01E 04	1.012E 01	1.013E 01	1.018E 01	1.026E 01	1.037E 01	1.052E 01	1.070E 01	1.090E 01	1.113E 01
1.07E 05--2.90E 05	3.087E 01	3.090E 01	3.104E 01	3.138E 01	3.183E 01	3.208E 01	3.262E 01	3.324E 01	3.391E 01
3.06E 06--1.07E 05	8.704E 01	8.713E 01	8.751E 01	8.839E 01	8.916E 01	9.039E 01	9.187E 01	9.358E 01	9.544E 01
1.12E 06--3.06E 06	2.422E 02	2.423E 02	2.435E 02	2.454E 02	2.480E 02	2.514E 02	2.554E 02	2.600E 02	2.651E 02
4.14E 07--1.12E 06	5.491E 02	5.497E 02	5.519E 02	5.561E 02	5.619E 02	5.694E 02	5.783E 02	5.886E 02	5.999E 02
0.0	8.293E 02	8.302E 02	8.336E 02	8.396E 02	8.478E 02	8.582E 02	8.703E 02	8.842E 02	8.994E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	3.352E-05	4.939E-05	7.553E-05	1.419E-04	2.826E-04	5.846E-04	1.233E-03	3.485E-03	2.027E-03
4.97E 00--6.36E 00	1.594E-04	1.908E-04	2.426E-04	3.327E-04	4.844E-04	7.400E-04	1.153E-03	1.885E-03	3.194E-03
4.07E 00--4.97E 00	2.269E-04	2.685E-04	3.299E-04	4.206E-04	5.519E-04	7.359E-04	9.798E-04	1.271E-03	3.821E-03
3.01E 00--4.07E 00	2.017E-04	2.344E-04	2.797E-04	3.404E-04	4.182E-04	5.128E-04	6.171E-04	7.107E-04	3.105E-03
2.46E 00--3.01E 00	3.740E-04	4.555E-04	5.730E-04	7.423E-04	9.848E-04	1.328E-03	1.799E-03	2.387E-03	6.565E-03
2.35E 00--2.46E 00	6.573E-04	8.150E-04	1.056E-03	1.410E-03	1.941E-03	2.744E-03	3.941E-03	5.617E-03	1.244E-02
1.83E 00--2.35E 00	6.597E-04	7.684E-04	9.081E-04	1.085E-03	1.302E-03	1.561E-03	1.845E-03	2.103E-03	9.606E-03
1.11E 00--1.83E 00	8.369E-04	9.344E-04	1.048E-03	1.179E-03	1.324E-03	1.474E-03	1.611E-03	1.707E-03	1.118E-02
5.50E 01--1.11E 00	1.991E-03	2.178E-03	2.441E-03	2.717E-03	3.016E-03	3.318E-03	3.588E-03	3.772E-03	2.620E-02
3.35E 02--1.11E 01	4.034E-02	4.164E-02	4.296E-02	4.423E-02	4.540E-02	4.639E-02	4.713E-02	4.756E-02	3.824E-02
1.01E 04--5.83E 04	3.803E-02	3.806E-02	3.988E-02	4.076E-02	4.155E-02	4.221E-02	4.270E-02	4.298E-02	4.750E-01
2.90E 05--1.01E 04	2.493E 00	2.549E 00	2.606E 00	2.659E 00	2.707E 00	2.747E 00	2.777E 00	2.794E 00	3.113E 01
1.07E 05--2.90E 05	1.137E 01	1.162E 01	1.186E 01	1.209E 01	1.230E 01	1.247E 01	1.260E 01	1.267E 01	1.420E 02
3.06E 06--1.07E 05	3.464E 01	3.538E 01	3.612E 01	3.681E 01	3.743E 01	3.795E 01	3.833E 01	3.855E 01	4.326E 02
1.12E 06--3.06E 06	9.744E 01	9.948E 01	1.015E 02	1.034E 02	1.051E 02	1.065E 02	1.076E 02	1.082E 02	1.217E 03
4.14E 07--1.12E 06	2.705E 02	2.761E 02	2.815E 02	2.867E 02	2.913E 02	2.951E 02	2.979E 02	2.996E 02	3.379E 03
0.0	6.119E 02	6.241E 02	6.363E 02	6.477E 02	6.579E 02	6.663E 02	6.726E 02	6.761E 02	7.643E 03
0.0	9.158E 02	9.327E 02	9.495E 02	9.653E 02	9.791E 02	9.903E 02	9.984E 02	1.003E 03	1.145E 04

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8556	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	3.277E-07	3.984E-07	6.547E-07	1.013E-06	1.395E-06	1.926E-06	2.449E-06	4.435E-06	6.806E-06
4.97E 00--6.36E 00	2.009E-05	2.004E-05	1.999E-05	2.042E-05	2.198E-05	2.497E-05	2.929E-05	3.453E-05	4.039E-05
4.07E 00--4.97E 00	3.933E-05	3.948E-05	4.011E-05	4.132E-05	4.315E-05	4.572E-05	4.915E-05	5.375E-05	5.801E-05
3.01E 00--4.07E 00	6.434E-05	6.452E-05	6.521E-05	6.661E-05	6.894E-05	7.263E-05	7.674E-05	8.131E-05	8.640E-05
2.46E 00--3.01E 00	6.437E-05	6.471E-05	6.521E-05	6.661E-05	6.894E-05	7.263E-05	7.674E-05	8.131E-05	8.640E-05
2.35E 00--2.46E 00	9.696E-05	9.741E-05	9.933E-05	1.031E-04	1.090E-04	1.179E-04	1.307E-04	1.491E-04	1.753E-04
1.83E 00--2.35E 00	1.195E-04	1.200E-04	1.221E-04	1.261E-04	1.323E-04	1.413E-04	1.535E-04	1.700E-04	1.919E-04
1.11E 00--1.83E 00	1.811E-04	1.817E-04	1.842E-04	1.877E-04	1.968E-04	2.068E-04	2.204E-04	2.381E-04	2.603E-04
5.50E 01--1.11E 00	4.584E-04	4.600E-04	4.665E-04	4.787E-04	4.970E-04	5.221E-04	5.548E-04	5.966E-04	6.485E-04
1.11E 01--5.50E 01	1.300E-02	1.302E-02	1.310E-02	1.325E-02	1.347E-02	1.375E-02	1.409E-02	1.449E-02	1.493E-02
5.83E 04--3.35E-02	1.282E-02	1.284E-02	1.290E-02	1.302E-02	1.319E-02	1.340E-02	1.366E-02	1.396E-02	1.429E-02
1.01E 04--5.83E-04	8.523E-01	8.533E-01	8.574E-01	8.648E-01	8.753E-01	8.899E-01	9.051E-01	9.237E-01	9.443E-01
3.926E 00	3.926E 00	3.930E 00	3.948E 00	3.981E 00	4.027E 00	4.087E 00	4.158E 00	4.240E 00	4.331E 00
2.90E 05--1.01E-04	1.202E 01	1.203E 01	1.208E 01	1.218E 01	1.232E 01	1.250E 01	1.272E 01	1.297E 01	1.324E 01
3.06E 06--1.07E-05	3.402E 01	3.405E 01	3.421E 01	3.448E 01	3.487E 01	3.537E 01	3.597E 01	3.666E 01	3.742E 01
1.12E 06--3.06E-06	9.497E 01	9.507E 01	9.549E 01	9.624E 01	9.731E 01	9.868E 01	1.003E 02	1.028E 02	1.043E 02
4.14E 07--1.12E-06	2.159E 02	2.161E 02	2.171E 02	2.187E 02	2.211E 02	2.242E 02	2.278E 02	2.320E 02	2.366E 02
0.0	3.271E 02	3.275E 02	3.288E 02	3.313E 02	3.347E 02	3.389E 02	3.439E 02	3.495E 02	3.558E 02
---	4.14E-07	3.694E 02	3.763E 02	3.828E 02	3.884E 02	3.931E 02	3.964E 02	3.982E 02	4.016E 03
0.0	3.625E 02	3.694E 02	3.763E 02	3.828E 02	3.884E 02	3.931E 02	3.964E 02	3.982E 02	4.016E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8556	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	1.010E-05	1.506E-05	2.432E-05	4.415E-05	8.698E-05	1.763E-04	3.601E-04	8.969E-04	5.841E-04
4.97E 00--6.36E 00	4.735E-05	5.719E-05	7.337E-05	1.012E-04	1.479E-04	2.234E-04	3.415E-04	5.303E-04	9.515E-04
4.07E 00--4.97E 00	6.883E-05	8.165E-05	1.005E-04	1.283E-04	1.679E-04	2.223E-04	2.919E-04	3.683E-04	1.154E-03
3.01E 00--4.07E 00	1.179E-04	1.447E-04	1.836E-04	2.399E-04	3.208E-04	4.354E-04	5.912E-04	7.788E-04	9.437E-04
2.46E 00--3.01E 00	1.179E-04	1.447E-04	1.836E-04	2.399E-04	3.208E-04	4.354E-04	5.912E-04	7.788E-04	9.437E-04
2.35E 00--2.46E 00	2.130E-04	2.678E-04	3.494E-04	4.728E-04	6.618E-04	9.528E-04	1.394E-03	2.008E-03	4.184E-03
1.83E 00--2.35E 00	2.207E-04	2.582E-04	3.065E-04	3.674E-04	4.425E-04	5.305E-04	6.256E-04	7.081E-04	3.224E-03
1.11E 00--1.83E 00	2.878E-04	3.211E-04	3.608E-04	4.065E-04	4.568E-04	5.050E-04	5.550E-04	5.868E-04	3.837E-03
5.50E 01--1.11E 00	7.120E-04	7.881E-04	8.774E-04	9.788E-04	1.089E-03	1.199E-03	1.297E-03	1.362E-03	9.386E-03
1.11E 01--5.50E 01	1.716E-03	1.820E-03	1.931E-03	2.045E-03	2.156E-03	2.256E-03	2.334E-03	2.382E-03	2.165E-02
5.83E 04--3.35E-02	1.542E-02	1.593E-02	1.645E-02	1.695E-02	1.745E-02	1.790E-02	1.809E-02	1.824E-02	1.924E-01
1.01E 04--5.83E-04	1.465E-02	1.502E-02	1.538E-02	1.573E-02	1.604E-02	1.631E-02	1.650E-02	1.661E-02	1.829E-01
3.926E 00	9.644E-01	9.891E-01	1.012E 00	1.033E 00	1.052E 00	1.068E 00	1.080E 00	1.087E 00	1.207E 01
2.90E 05--1.01E-04	4.526E 00	4.526E 00	4.625E 00	4.718E 00	4.801E 00	4.870E 00	4.921E 00	4.950E 00	5.528E 01
3.06E 06--1.07E-05	1.353E 01	1.383E 01	1.413E 01	1.441E 01	1.466E 01	1.487E 01	1.502E 01	1.511E 01	1.690E 02
1.12E 06--3.06E-06	3.822E 01	3.905E 01	3.987E 01	4.065E 01	4.134E 01	4.191E 01	4.234E 01	4.258E 01	4.773E 02
4.14E 07--1.12E-06	1.065E 02	1.087E 02	1.109E 02	1.130E 02	1.149E 02	1.165E 02	1.176E 02	1.183E 02	1.329E 03
0.0	2.415E 02	2.465E 02	2.514E 02	2.561E 02	2.603E 02	2.638E 02	2.663E 02	2.678E 02	3.016E 03
---	4.14E-07	3.694E 02	3.763E 02	3.828E 02	3.884E 02	3.931E 02	3.964E 02	3.982E 02	4.016E 03
0.0	3.625E 02	3.694E 02	3.763E 02	3.828E 02	3.884E 02	3.931E 02	3.964E 02	3.982E 02	4.016E 03

4 PI R\*\*2 FLUENCE AT 75.C METERS

6.36 TO 8.187 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0446	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	3.056E-07	3.059E-07	3.072E-07	3.096E-07	3.132E-07	3.179E-07	3.232E-07	3.299E-07	3.369E-07
6.50E 00--8.00E 00	6.544E-06	6.577E-06	6.706E-06	6.957E-06	7.329E-06	7.841E-06	8.529E-06	9.457E-06	1.072E-05
5.00E 00--6.50E 00	6.199E-04	8.244E-04	8.423E-04	8.757E-04	9.270E-04	9.956E-04	1.087E-03	1.211E-03	1.379E-03
4.00E 00--5.00E 00	5.061E-04	5.102E-04	5.256E-04	5.534E-04	5.907E-04	6.373E-04	6.967E-04	7.756E-04	8.837E-04
3.00E 00--4.00E 00	9.746E-04	9.818E-04	1.009E-03	1.060E-03	1.128E-03	1.216E-03	1.330E-03	1.483E-03	1.692E-03
2.50E 00--3.00E 00	7.384E-04	7.444E-04	7.670E-04	8.072E-04	8.606E-04	9.268E-04	1.011E-03	1.123E-03	1.277E-03
2.00E 00--2.50E 00	1.395E-03	1.403E-03	1.494E-03	1.620E-03	1.779E-03	1.992E-03	2.047E-03	2.047E-03	2.323E-03
1.66E 00--2.00E 00	8.958E-04	8.954E-04	9.150E-04	9.461E-04	9.948E-04	1.066E-03	1.145E-03	1.300E-03	1.483E-03
1.33E 00--1.66E 00	1.125E-03	1.127E-03	1.135E-03	1.159E-03	1.206E-03	1.287E-03	1.407E-03	1.573E-03	1.794E-03
1.00E 00--1.33E 00	4.097E-04	4.051E-04	3.910E-04	3.758E-04	3.757E-04	4.006E-04	4.518E-04	5.244E-04	6.163E-04
8.00E 01--1.00E 00	4.289E-04	4.253E-04	4.330E-04	4.458E-04	4.739E-04	5.211E-04	5.881E-04	6.763E-04	7.940E-04
6.00E 01--8.00E 01	4.407E-04	4.537E-04	5.005E-04	5.765E-04	6.615E-04	7.457E-04	8.354E-04	9.527E-04	1.128E-03
4.00E 01--6.00E 01	2.177E-03	2.189E-03	2.235E-03	2.323E-03	2.451E-03	2.635E-03	2.896E-03	3.264E-03	3.756E-03
3.00E 01--4.00E 01	3.004E-03	3.014E-03	3.066E-03	3.204E-03	3.469E-03	3.879E-03	4.416E-03	5.028E-03	5.855E-03
2.00E 01--3.00E 01	9.830E-03	9.853E-03	9.939E-03	1.008E-02	1.024E-02	1.039E-02	1.059E-02	1.072E-02	1.096E-02
1.00E 01--2.00E 01	1.874E-02	1.877E-02	1.886E-02	1.904E-02	1.931E-02	1.966E-02	2.011E-02	2.066E-02	2.132E-02
5.00E 02--1.00E 01	3.753E-02	3.756E-02	3.769E-02	3.792E-02	3.827E-02	3.872E-02	3.927E-02	3.992E-02	4.067E-02
2.00E 02--5.00E 02	1.021E-02	1.021E-02	1.023E-02	1.026E-02	1.031E-02	1.037E-02	1.044E-02	1.052E-02	1.061E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07500	ANGLE 15 MU=0.08566	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00--1.00E 01	3.444E-07	3.522E-07	3.597E-07	3.666E-07	3.729E-07	3.784E-07	3.819E-07	3.817E-07	4.299E-06
6.50E 00--8.00E 00	1.192E-05	2.275E-05	2.687E-05	2.951E-05	3.295E-05	3.784E-05	4.395E-05	5.143E-05	2.303E-04
5.00E 00--6.50E 00	1.657E-03	2.242E-03	2.687E-03	3.176E-03	3.598E-03	4.076E-03	4.624E-03	5.299E-03	2.969E-02
4.00E 00--5.00E 00	9.857E-04	1.887E-03	1.486E-03	1.262E-03	1.024E-03	8.877E-04	7.594E-04	6.439E-04	1.911E-02
3.00E 00--4.00E 00	2.041E-03	2.780E-03	3.335E-03	3.415E-03	3.462E-03	3.594E-03	3.735E-03	3.880E-03	3.600E-02
2.50E 00--3.00E 00	1.431E-03	2.630E-03	2.121E-03	2.481E-03	3.333E-03	5.447E-03	8.575E-03	1.270E-02	2.703E-02
2.00E 00--2.50E 00	2.592E-03	4.816E-03	3.834E-03	4.466E-03	5.975E-03	9.769E-03	1.537E-02	2.275E-02	4.889E-02
1.66E 00--2.00E 00	1.665E-03	3.027E-03	2.444E-03	2.956E-03	4.011E-03	5.611E-03	7.972E-03	1.448E-02	3.160E-02
1.33E 00--1.66E 00	2.012E-03	3.654E-03	3.004E-03	3.597E-03	4.872E-03	7.762E-03	1.183E-02	1.700E-02	3.807E-02
1.00E 00--1.33E 00	7.460E-04	9.529E-04	1.186E-03	1.489E-03	2.183E-03	3.129E-03	3.650E-03	4.540E-03	1.336E-02
8.00E 01--1.00E 00	9.700E-04	1.246E-03	1.563E-03	1.955E-03	2.713E-03	3.605E-03	3.930E-03	4.650E-03	1.641E-02
6.00E 01--8.00E 01	1.399E-03	1.789E-03	2.213E-03	2.679E-03	3.448E-03	4.269E-03	4.484E-03	5.173E-03	2.164E-02
4.00E 01--6.00E 01	4.389E-03	5.163E-03	5.888E-03	6.621E-03	7.949E-03	9.496E-03	1.003E-02	1.174E-02	5.978E-02
3.00E 01--4.00E 01	6.270E-03	6.893E-03	7.433E-03	8.002E-03	9.109E-03	1.040E-02	1.082E-02	1.203E-02	7.761E-02
2.00E 01--3.00E 01	1.134E-02	1.192E-02	1.252E-02	1.315E-02	1.452E-02	1.637E-02	1.728E-02	1.891E-02	1.499E-01
1.00E 01--2.00E 01	2.209E-02	2.293E-02	2.399E-02	2.505E-02	2.621E-02	2.745E-02	2.852E-02	2.907E-02	2.808E-01
5.00E 02--1.00E 01	4.149E-02	4.238E-02	4.330E-02	4.420E-02	4.507E-02	4.589E-02	4.650E-02	4.671E-02	5.206E-01
2.00E 02--5.00E 02	1.071E-02	1.081E-02	1.092E-02	1.102E-02	1.111E-02	1.119E-02	1.125E-02	1.127E-02	1.343E-01

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 150.0 METERS

## GAMMAS/MEV/STERADIAN/SOURCE NEUTRON

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9445	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	1.042E-06	1.044E-06	1.052E-06	1.067E-06	1.090E-06	1.119E-06	1.156E-06	1.199E-06	1.249E-06
5.00E 00--6.50E 00	8.712E-06	8.744E-06	8.968E-06	9.336E-06	9.858E-06	1.054E-05	1.144E-05	1.265E-05	1.432E-05
4.00E 00--5.00E 00	9.437E-04	9.511E-04	9.793E-04	1.030E-03	1.099E-03	1.187E-03	1.301E-03	1.456E-03	1.671E-03
3.00E 00--4.00E 00	5.596E-04	5.686E-04	6.013E-04	6.546E-04	7.155E-04	7.792E-04	8.519E-04	9.491E-04	1.090E-03
2.50E 00--3.00E 00	1.048E-03	1.062E-03	1.114E-03	1.201E-03	1.303E-03	1.415E-03	1.548E-03	1.729E-03	1.988E-03
2.00E 00--2.50E 00	8.757E-04	8.888E-04	9.362E-04	1.013E-03	1.101E-03	1.195E-03	1.303E-03	1.451E-03	1.646E-03
1.66E 00--2.00E 00	1.689E-03	1.703E-03	1.735E-03	1.848E-03	1.969E-03	2.121E-03	2.317E-03	2.587E-03	2.962E-03
1.33E 00--1.66E 00	1.136E-03	1.140E-03	1.158E-03	1.195E-03	1.258E-03	1.345E-03	1.495E-03	1.691E-03	1.953E-03
1.00E 00--1.33E 00	1.481E-03	1.476E-03	1.464E-03	1.465E-03	1.508E-03	1.617E-03	1.798E-03	2.050E-03	2.377E-03
8.00E 01--1.00E 00	7.251E-04	7.079E-04	6.535E-04	5.889E-04	5.093E-04	4.228E-04	3.441E-04	2.802E-04	2.307E-04
6.00E 01--8.00E 01	7.017E-04	7.002E-04	7.005E-04	7.184E-04	7.30E-04	8.721E-04	1.013E-03	1.147E-03	1.457E-03
4.00E 01--6.00E 01	6.205E-04	6.571E-04	7.867E-04	9.849E-04	1.130E-03	1.341E-03	1.499E-03	1.740E-03	2.177E-03
3.00E 01--4.00E 01	3.805E-03	3.830E-03	3.926E-03	4.106E-03	4.376E-03	4.787E-03	5.429E-03	6.396E-03	7.747E-03
2.00E 01--3.00E 01	5.492E-03	5.517E-03	5.659E-03	6.061E-03	6.861E-03	8.117E-03	9.743E-03	1.144E-02	1.330E-02
1.00E 01--2.00E 01	2.187E-02	2.194E-02	2.220E-02	2.260E-02	2.302E-02	2.339E-02	2.372E-02	2.410E-02	2.467E-02
5.00E 02--1.00E 01	4.961E-02	4.969E-02	5.001E-02	5.064E-02	5.155E-02	5.278E-02	5.434E-02	5.629E-02	5.866E-02
2.00E 02--5.00E 02	1.142E-01	1.143E-01	1.149E-01	1.159E-01	1.175E-01	1.195E-01	1.220E-01	1.250E-01	1.285E-01
	3.257E-02	3.259E-02	3.267E-02	3.282E-02	3.302E-02	3.329E-02	3.363E-02	3.402E-02	3.447E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.630E-05
6.50E 00--8.00E 00	1.303E-06	1.361E-06	1.422E-06	1.481E-06	1.535E-06	1.582E-06	1.617E-06	1.635E-06	1.630E-05
5.00E 00--6.50E 00	1.998E-05	1.995E-05	2.730E-05	2.986E-05	4.870E-05	7.184E-05	1.196E-04	2.685E-04	3.460E-04
4.00E 00--5.00E 00	1.612E-03	2.649E-03	2.707E-03	4.872E-03	4.668E-03	9.965E-03	1.571E-02	3.447E-02	4.223E-02
3.00E 00--4.00E 00	1.576E-03	1.330E-03	2.222E-03	2.441E-03	4.937E-03	6.052E-03	1.017E-02	2.218E-02	2.791E-02
2.50E 00--3.00E 00	1.912E-03	3.207E-03	3.455E-03	5.057E-03	7.725E-03	1.059E-02	1.955E-02	4.220E-02	5.129E-02
2.00E 00--2.50E 00	2.359E-03	2.045E-03	3.337E-03	3.716E-03	6.001E-03	8.936E-03	1.475E-02	3.014E-02	4.129E-02
1.66E 00--2.00E 00	4.200E-03	3.579E-03	5.874E-03	6.489E-03	1.050E-02	1.544E-02	2.510E-02	5.126E-02	7.204E-02
1.33E 00--1.66E 00	2.781E-03	2.441E-03	4.000E-03	4.620E-03	7.519E-03	1.116E-02	1.799E-02	3.440E-02	4.965E-02
1.00E 00--1.33E 00	3.367E-03	2.964E-03	4.881E-03	5.703E-03	9.232E-03	1.349E-02	2.114E-02	3.914E-02	5.949E-02
8.00E 01--1.00E 00	1.519E-03	1.728E-03	2.492E-03	3.883E-03	5.439E-03	8.207E-03	1.131E-02	1.539E-02	3.121E-02
6.00E 01--8.00E 01	2.020E-03	2.468E-03	3.555E-03	5.238E-03	6.960E-03	9.626E-03	1.215E-02	1.496E-02	3.888E-02
4.00E 01--6.00E 01	3.056E-03	3.934E-03	5.399E-03	7.261E-03	8.956E-03	1.135E-02	1.355E-02	1.606E-02	5.193E-02
3.00E 01--4.00E 01	9.721E-03	1.136E-02	1.365E-02	1.630E-02	1.857E-02	2.466E-02	2.669E-02	3.274E-02	1.333E-01
2.00E 01--3.00E 01	1.512E-02	1.627E-02	1.788E-02	2.005E-02	2.216E-02	2.572E-02	2.923E-02	3.333E-02	1.836E-01
1.00E 01--2.00E 01	2.598E-02	2.683E-02	2.875E-02	3.171E-02	3.821E-02	3.879E-02	4.333E-02	4.933E-02	3.456E-01
5.00E 02--1.00E 01	6.153E-02	6.479E-02	6.861E-02	7.300E-02	7.768E-02	8.279E-02	8.771E-02	9.171E-02	7.898E-01
2.00E 02--5.00E 02	1.325E-01	1.369E-01	1.416E-01	1.465E-01	1.513E-01	1.559E-01	1.597E-01	1.631E-01	1.669E 00
	3.496E-02	3.548E-02	3.603E-02	3.657E-02	3.708E-02	3.752E-02	3.787E-02	3.808E-02	4.387E-01

4 PI R\*2 FLUENCE AT 200.0 METERS

5.36 TO 6.187 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	1.641E-06	1.645E-06	1.660E-06	1.691E-06	1.736E-06	1.796E-06	1.870E-06	1.960E-06	2.064E-06
5.00E 00---6.50E 00	9.685E-06	9.748E-06	9.991E-06	1.031E-05	1.102E-05	1.178E-05	1.275E-05	1.406E-05	1.587E-05
4.00E 00---5.00E 00	5.278E-04	5.367E-04	5.701E-04	6.088E-04	7.103E-04	8.108E-04	9.308E-04	1.075E-03	1.248E-03
3.00E 00---4.00E 00	5.300E-04	5.423E-04	5.860E-04	6.544E-04	7.258E-04	8.108E-04	9.308E-04	1.075E-03	1.248E-03
2.50E 00---3.00E 00	9.852E-04	1.004E-02	1.071E-03	1.178E-03	1.293E-03	1.407E-03	1.535E-03	1.686E-03	1.868E-03
2.00E 00---2.50E 00	8.583E-04	8.761E-04	9.394E-04	1.038E-03	1.141E-03	1.238E-03	1.335E-03	1.432E-03	1.529E-03
1.66E 00---2.00E 00	1.686E-03	1.703E-03	1.767E-03	1.874E-03	2.006E-03	2.163E-03	2.363E-03	2.643E-03	3.043E-03
1.33E 00---1.66E 00	1.145E-03	1.168E-03	1.184E-03	1.200E-03	1.282E-03	1.384E-03	1.537E-03	1.754E-03	2.048E-03
1.00E 00---1.33E 00	8.486E-04	8.219E-04	7.357E-04	6.341E-04	5.21E-04	4.039E-04	2.849E-04	1.636E-04	4.29E-05
8.00E 01---1.00E 01	7.824E-04	7.789E-04	7.741E-04	7.914E-04	8.596E-04	9.870E-04	1.164E-03	1.390E-03	1.708E-03
6.00E 01---8.00E 01	6.200E-04	6.723E-04	8.572E-04	1.131E-03	1.372E-03	1.567E-03	1.734E-03	2.018E-03	2.598E-03
4.00E 01---6.00E 01	4.386E-03	4.417E-03	4.537E-03	4.759E-03	5.090E-03	5.611E-03	6.459E-03	7.776E-03	9.646E-03
3.00E 01---4.00E 01	6.505E-03	6.524E-03	6.716E-03	7.264E-03	8.394E-03	1.019E-02	1.250E-02	1.501E-02	1.741E-02
2.00E 01---3.00E 01	2.796E-02	2.806E-02	2.943E-02	2.900E-02	2.956E-02	3.003E-02	3.041E-02	3.087E-02	3.161E-02
1.00E 01---2.00E 01	6.769E-02	6.781E-02	6.929E-02	6.922E-02	7.058E-02	7.241E-02	7.475E-02	7.767E-02	8.124E-02
5.00E 02---1.00E 01	1.662E-01	1.664E-01	1.673E-01	1.691E-01	1.716E-01	1.750E-01	1.791E-01	1.842E-01	1.901E-01
2.00E 02---5.00E 02	4.844E-02	4.847E-02	4.860E-02	4.884E-02	4.918E-02	4.964E-02	5.019E-02	5.085E-02	5.161E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4530	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	2.182E-06	2.312E-06	2.450E-06	2.590E-06	2.723E-06	2.840E-06	2.930E-06	2.980E-06	2.766E-05
5.00E 00---6.50E 00	1.672E-05	2.348E-05	2.573E-05	3.650E-05	4.833E-05	7.957E-05	1.433E-04	3.342E-04	3.872E-04
4.00E 00---5.00E 00	2.184E-03	2.293E-03	3.279E-03	4.058E-03	6.156E-03	9.654E-03	1.836E-02	4.294E-02	4.585E-02
3.00E 00---4.00E 00	1.179E-03	1.762E-03	1.957E-03	2.869E-03	3.909E-03	6.444E-03	1.219E-02	2.757E-02	3.006E-02
2.50E 00---3.00E 00	2.587E-03	2.706E-03	3.000E-03	4.814E-03	7.433E-03	1.211E-02	2.225E-02	5.128E-02	5.493E-02
2.00E 00---2.50E 00	1.861E-03	2.712E-03	3.044E-03	4.415E-03	6.071E-03	1.015E-02	1.799E-02	3.767E-02	4.540E-02
1.66E 00---2.00E 00	3.233E-03	4.724E-03	5.254E-03	7.658E-03	1.042E-02	1.717E-02	2.983E-02	6.204E-02	7.760E-02
1.33E 00---1.66E 00	2.210E-03	3.236E-03	3.725E-03	5.574E-03	7.906E-03	1.309E-02	2.227E-02	4.298E-02	5.539E-02
1.00E 00---1.33E 00	2.677E-03	3.928E-03	4.586E-03	6.949E-03	9.854E-03	1.590E-02	2.593E-02	4.805E-02	6.655E-02
8.00E 01---1.00E 01	1.530E-03	2.230E-03	3.102E-03	4.930E-03	7.434E-03	1.118E-02	1.601E-02	2.223E-02	4.044E-02
6.00E 01---8.00E 01	3.551E-03	3.226E-03	4.577E-03	6.876E-03	9.647E-03	1.318E-02	1.703E-02	2.123E-02	5.070E-02
4.00E 01---6.00E 01	1.189E-02	1.492E-02	1.768E-02	2.101E-02	2.438E-02	2.894E-02	3.500E-02	4.335E-02	6.808E-02
3.00E 01---4.00E 01	1.937E-02	2.149E-02	2.330E-02	2.602E-02	2.928E-02	3.373E-02	3.881E-02	4.438E-02	1.632E-01
2.00E 01---3.00E 01	3.262E-02	3.492E-02	3.718E-02	4.082E-02	4.480E-02	5.021E-02	5.656E-02	6.419E-02	2.382E-01
1.00E 01---2.00E 01	8.549E-02	9.057E-02	9.636E-02	1.030E-01	1.102E-01	1.180E-01	1.256E-01	1.319E-01	1.102E 00
5.00E 02---1.00E 01	1.968E-01	2.043E-01	2.124E-01	2.209E-01	2.294E-01	2.375E-01	2.443E-01	2.488E-01	2.483E 00
2.00E 02---5.00E 02	5.244E-02	5.354E-02	5.427E-02	5.520E-02	5.608E-02	5.685E-02	5.746E-02	5.782E-02	6.582E-01

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 300.0 METERS

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
8.00E 00---1.00E 01	2.816E-06	2.825E-06	2.861E-06	2.931E-06	3.035E-06	3.175E-06	3.354E-06	3.576E-06	3.844E-06
6.50E 00---8.00E 00	1.096E-05	1.104E-05	1.136E-05	1.190E-05	1.260E-05	1.344E-05	1.451E-05	1.594E-05	1.794E-05
5.00E 00---6.50E 00	8.005E-04	8.112E-04	8.505E-04	9.154E-04	9.905E-04	1.073E-03	1.173E-03	1.313E-03	1.521E-03
4.00E 00---5.00E 00	4.161E-04	4.332E-04	4.932E-04	5.813E-04	6.615E-04	7.202E-04	7.711E-04	8.477E-04	9.854E-04
3.00E 00---4.00E 00	7.735E-04	7.987E-04	8.875E-04	1.019E-03	1.141E-03	1.238E-03	1.330E-03	1.471E-03	1.712E-03
2.50E 00---3.00E 00	7.162E-04	7.405E-04	8.255E-04	9.498E-04	1.062E-03	1.148E-03	1.232E-03	1.364E-03	1.593E-03
2.00E 00---2.50E 00	1.469E-03	1.489E-03	1.564E-03	1.681E-03	1.811E-03	1.951E-03	2.128E-03	2.389E-03	2.779E-03
1.66E 00---2.00E 00	1.067E-03	1.068E-03	1.076E-03	1.099E-03	1.150E-03	1.247E-03	1.403E-03	1.628E-03	1.929E-03
1.33E 00---1.66E 00	1.482E-03	1.461E-03	1.395E-03	1.327E-03	1.334E-03	1.459E-03	1.694E-03	2.009E-03	2.374E-03
1.00E 00---1.33E 00	9.271E-04	8.861E-04	7.526E-04	5.974E-04	5.491E-04	6.578E-04	8.881E-04	1.157E-03	1.423E-03
8.00E 00---1.00E 01	7.837E-04	7.775E-04	7.657E-04	7.826E-04	8.681E-04	1.027E-03	1.239E-03	1.496E-03	1.871E-03
6.00E 00---8.00E 00	4.982E-04	5.724E-04	8.335E-04	1.204E-03	1.508E-03	1.691E-03	1.836E-03	2.163E-03	2.954E-03
4.00E 00---6.00E 00	4.710E-03	4.747E-03	4.893E-03	5.148E-03	5.541E-03	6.197E-03	7.328E-03	9.151E-03	1.177E-02
3.00E 00---4.00E 00	7.263E-03	7.300E-03	7.549E-03	8.330E-03	9.960E-03	1.253E-02	1.581E-02	1.927E-02	2.242E-02
2.00E 00---3.00E 00	3.510E-02	3.524E-02	3.574E-02	3.649E-02	3.720E-02	3.773E-02	3.813E-02	3.862E-02	3.954E-02
1.00E 00---2.00E 00	9.140E-02	9.157E-02	9.230E-02	9.369E-02	9.572E-02	9.846E-02	1.020E-01	1.064E-01	1.117E-01
5.00E 00---1.00E 01	2.453E-01	2.456E-01	2.472E-01	2.502E-01	2.545E-01	2.602E-01	2.674E-01	2.761E-01	2.863E-01
2.00E 00---5.00E 02	7.355E-02	7.360E-02	7.382E-02	7.423E-02	7.482E-02	7.560E-02	7.655E-02	7.769E-02	7.900E-02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
8.00E 00---1.00E 01	4.161E-06	4.525E-06	4.933E-06	5.370E-06	5.815E-06	6.228E-06	6.564E-06	6.769E-06	5.339E-05
6.50E 00---8.00E 00	2.104E-05	2.426E-05	3.034E-05	3.832E-05	5.332E-05	6.257E-05	1.593E-04	4.160E-04	4.365E-04
5.00E 00---6.50E 00	1.789E-03	2.299E-03	2.886E-03	3.974E-03	5.762E-03	9.591E-03	1.926E-02	5.179E-02	4.555E-02
4.00E 00---5.00E 00	1.236E-03	1.491E-03	1.976E-03	2.609E-03	3.897E-03	6.561E-03	1.336E-02	3.390E-02	3.049E-02
3.00E 00---4.00E 00	2.038E-03	2.660E-03	3.331E-03	4.596E-03	6.763E-03	1.162E-02	2.357E-02	6.00E-02	5.333E-02
2.50E 00---3.00E 00	1.988E-03	2.389E-03	3.144E-03	4.182E-03	6.312E-03	1.060E-02	2.050E-02	4.628E-02	4.727E-02
2.00E 00---2.50E 00	3.419E-03	4.041E-03	5.326E-03	7.096E-03	1.063E-02	1.734E-02	3.243E-02	7.202E-02	7.813E-02
1.66E 00---2.00E 00	2.387E-03	2.870E-03	3.910E-03	5.522E-03	8.685E-03	1.445E-02	2.510E-02	5.229E-02	5.904E-02
1.33E 00---1.66E 00	2.903E-03	3.492E-03	4.873E-03	7.057E-03	1.107E-02	1.776E-02	3.015E-02	5.659E-02	7.095E-02
1.00E 00---1.33E 00	1.791E-03	2.443E-03	3.859E-03	6.279E-03	1.007E-02	1.531E-02	2.237E-02	3.163E-02	5.194E-02
8.00E 00---1.00E 01	2.571E-03	3.800E-03	5.971E-03	9.116E-03	1.329E-02	1.816E-02	2.357E-02	2.937E-02	4.564E-02
6.00E 00---8.00E 00	4.458E-03	6.691E-03	9.703E-03	1.318E-02	1.702E-02	2.104E-02	2.543E-02	3.033E-02	8.858E-02
4.00E 00---6.00E 00	1.513E-02	1.882E-02	2.278E-02	2.866E-02	3.094E-02	3.618E-02	4.364E-02	5.397E-02	2.093E-01
3.00E 00---4.00E 00	2.595E-02	2.723E-02	2.972E-02	3.292E-02	3.737E-02	4.288E-02	4.922E-02	5.571E-02	3.016E-01
2.00E 00---3.00E 00	4.124E-02	4.362E-02	4.715E-02	5.140E-02	5.670E-02	6.293E-02	7.042E-02	7.871E-02	5.589E-01
1.00E 00---2.00E 00	1.182E-01	1.256E-01	1.346E-01	1.445E-01	1.551E-01	1.667E-01	1.777E-01	1.865E-01	1.525E 00
5.00E 00---1.00E 01	2.981E-01	3.113E-01	3.257E-01	3.409E-01	3.562E-01	3.706E-01	3.828E-01	3.909E-01	3.769E 00
2.00E 00---5.00E 02	8.046E-02	8.202E-02	8.365E-02	8.528E-02	8.681E-02	8.815E-02	8.920E-02	8.982E-02	1.010E 00

4 PI R\*2 FLUENCE AT 400.0 METERS

6.36 TO 8.187 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0954	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	3.701E-06	3.715E-06	3.771E-06	3.881E-06	4.046E-06	4.270E-06	4.563E-06	4.933E-06	5.394E-06
6.50E 00--8.00E 00	1.152E-05	1.161E-05	1.197E-05	1.258E-05	1.334E-05	1.424E-05	1.537E-05	1.690E-05	1.902E-05
5.00E 00--6.50E 00	6.426E-04	6.538E-04	6.947E-04	7.588E-04	8.271E-04	8.950E-04	9.738E-04	1.080E-03	1.266E-03
4.00E 00--5.00E 00	2.950E-04	3.146E-04	3.825E-04	4.782E-04	5.562E-04	6.008E-04	6.291E-04	6.824E-04	8.012E-04
3.00E 00--4.00E 00	5.537E-04	5.867E-04	6.842E-04	8.222E-04	9.367E-04	1.008E-03	1.063E-03	1.164E-03	1.369E-03
2.50E 00--4.00E 00	5.398E-04	5.667E-04	6.602E-04	7.907E-04	8.944E-04	9.609E-04	1.014E-03	1.117E-03	1.323E-03
2.00E 00--2.50E 00	1.168E-03	1.188E-03	1.262E-03	1.373E-03	1.494E-03	1.595E-03	1.735E-03	1.955E-03	2.296E-03
1.66E 00--2.00E 00	8.929E-04	8.914E-04	8.890E-04	8.962E-04	9.321E-04	1.015E-03	1.159E-03	1.366E-03	1.637E-03
1.33E 00--1.66E 00	1.284E-03	1.256E-03	1.166E-03	1.068E-03	1.056E-03	1.178E-03	1.414E-03	1.713E-03	2.033E-03
1.00E 00--1.33E 00	8.756E-04	8.277E-04	6.707E-04	4.913E-04	4.402E-04	5.670E-04	8.196E-04	1.091E-03	1.332E-03
8.00E 01--1.00E 00	6.793E-04	6.726E-04	6.597E-04	6.781E-04	7.694E-04	9.324E-04	1.138E-03	1.379E-03	1.749E-03
6.00E 01--8.00E 01	3.307E-04	4.447E-03	7.084E-04	1.111E-03	1.414E-03	1.562E-03	1.664E-03	1.995E-03	2.893E-03
4.00E 01--6.00E 01	4.411E-03	4.447E-03	4.584E-03	4.834E-03	5.229E-03	5.931E-03	7.188E-03	9.247E-03	1.220E-02
3.00E 01--4.00E 01	6.960E-03	7.005E-03	7.301E-03	8.214E-03	1.010E-02	1.304E-02	1.671E-02	2.050E-02	2.381E-02
2.00E 01--3.00E 01	3.687E-02	3.702E-02	3.756E-02	3.834E-02	3.903E-02	3.949E-02	3.980E-02	4.022E-02	4.112E-02
1.00E 01--2.00E 01	9.931E-02	9.951E-02	1.008E-01	1.020E-01	1.043E-01	1.074E-01	1.115E-01	1.165E-01	1.227E-01
5.00E 02--1.00E 01	2.819E-01	2.823E-01	2.843E-01	2.880E-01	2.933E-01	3.004E-01	3.093E-01	3.202E-01	3.330E-01
2.00E 02--5.00E 02	8.596E-02	8.602E-02	8.629E-02	8.680E-02	8.753E-02	8.849E-02	8.968E-02	9.109E-02	9.272E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	5.958E-06	6.635E-06	7.428E-06	8.326E-06	9.291E-06	1.024E-05	1.106E-05	1.159E-05	7.868E-05
6.50E 00--8.00E 00	2.195E-05	2.603E-05	3.164E-05	4.012E-05	5.435E-05	8.291E-05	1.580E-04	4.419E-04	4.530E-04
5.00E 00--6.50E 00	1.537E-03	1.921E-03	2.495E-03	3.405E-03	5.069E-03	8.592E-03	1.798E-02	5.299E-02	4.118E-02
4.00E 00--5.00E 00	1.002E-03	1.290E-03	1.668E-03	2.264E-03	3.414E-03	6.023E-03	1.282E-02	3.525E-02	2.777E-02
3.00E 00--4.00E 00	1.706E-03	2.165E-03	2.808E-03	3.825E-03	5.826E-03	1.030E-02	2.187E-02	5.944E-02	4.722E-02
2.50E 00--3.00E 00	1.646E-03	2.095E-03	2.699E-03	3.714E-03	5.726E-03	1.010E-02	2.025E-02	4.779E-02	4.369E-02
2.00E 00--2.50E 00	2.782E-03	3.478E-03	4.485E-03	6.226E-03	9.502E-03	1.614E-02	3.082E-02	7.013E-02	7.013E-02
1.66E 00--2.00E 00	1.988E-03	2.519E-03	3.410E-03	5.101E-03	8.300E-03	1.436E-02	2.628E-02	5.320E-02	5.558E-02
1.33E 00--1.66E 00	2.415E-03	3.071E-03	4.312E-03	6.675E-03	1.080E-02	1.789E-02	3.011E-02	5.598E-02	6.681E-02
1.00E 00--1.33E 00	1.655E-03	2.382E-03	3.942E-03	6.765E-03	1.110E-02	1.708E-02	2.483E-02	3.502E-02	5.511E-02
8.00E 01--1.00E 00	2.481E-03	3.222E-03	6.393E-03	1.006E-02	1.479E-02	2.021E-02	2.593E-02	3.188E-02	7.009E-02
6.00E 01--8.00E 01	4.621E-03	7.267E-03	1.069E-02	1.464E-02	1.893E-02	2.311E-02	2.754E-02	3.238E-02	9.491E-02
4.00E 01--6.00E 01	1.591E-02	2.002E-02	2.413E-02	2.811E-02	3.226E-02	3.736E-02	4.446E-02	5.416E-02	2.161E-01
3.00E 01--4.00E 01	2.641E-02	2.859E-02	3.100E-02	3.435E-02	3.894E-02	4.455E-02	5.054E-02	5.622E-02	3.147E-01
2.00E 01--3.00E 01	4.283E-02	4.550E-02	4.909E-02	5.355E-02	5.879E-02	6.489E-02	7.167E-02	7.873E-02	5.810E-01
1.00E 01--2.00E 01	1.300E-01	1.387E-01	1.487E-01	1.599E-01	1.720E-01	1.844E-01	1.960E-01	2.050E-01	1.677E 00
5.00E 02--1.00E 01	3.478E-01	3.644E-01	3.825E-01	4.016E-01	4.208E-01	4.388E-01	4.538E-01	4.636E-01	4.400E 00
2.00E 02--5.00E 02	9.452E-02	9.647E-02	9.849E-02	1.005E-01	1.024E-01	1.049E-01	1.053E-01	1.061E-01	1.186E 00



## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
8.00E 00---1.00E 01	4.172E-06	4.190E-06	4.262E-06	4.403E-06	4.614E-06	4.904E-06	5.287E-06	5.783E-06	6.416E-06
6.50E 00---8.00E 00	1.139E-05	1.149E-05	1.187E-05	1.251E-05	1.329E-05	1.422E-05	1.537E-05	1.695E-05	1.917E-05
5.00E 00---6.50E 00	4.972E-04	5.082E-04	5.476E-04	6.072E-04	6.660E-04	7.188E-04	7.772E-04	8.588E-04	1.012E-03
4.00E 00---5.00E 00	1.940E-04	2.141E-04	2.836E-04	3.783E-04	4.487E-04	4.787E-04	4.878E-04	5.209E-04	6.196E-04
3.00E 00---4.00E 00	3.823E-04	4.105E-04	5.079E-04	6.409E-04	7.400E-04	7.883E-04	8.134E-04	8.807E-04	1.048E-03
2.50E 00---3.00E 00	3.812E-04	4.081E-04	5.007E-04	6.254E-04	7.170E-04	7.597E-04	7.867E-04	8.620E-04	1.038E-03
2.00E 00---2.50E 00	8.829E-04	9.17E-04	9.883E-04	1.064E-03	1.154E-03	1.235E-03	1.339E-03	1.514E-03	1.798E-03
1.66E 00---2.00E 00	7.137E-04	7.098E-04	6.986E-04	6.920E-04	7.132E-04	7.817E-04	9.072E-04	1.087E-03	1.314E-03
1.33E 00---1.66E 00	1.059E-03	1.028E-03	9.260E-04	8.115E-04	7.881E-04	8.988E-04	1.121E-03	1.385E-03	1.643E-03
1.00E 00---1.33E 00	7.687E-04	7.195E-04	5.576E-04	3.755E-04	3.281E-04	4.588E-04	7.055E-04	9.510E-04	1.145E-03
8.00E-01---1.00E 00	5.444E-04	5.385E-04	5.283E-04	5.496E-04	6.385E-04	7.883E-04	9.660E-04	1.170E-03	1.505E-03
6.00E-01---8.00E-01	1.785E-04	2.635E-04	5.596E-04	9.523E-04	1.226E-03	1.331E-03	1.391E-03	1.703E-03	2.625E-03
4.00E-01---6.00E-01	3.855E-03	3.885E-03	4.004E-03	4.222E-03	4.588E-03	5.274E-03	6.538E-03	8.621E-03	1.160E-02
3.00E-01---4.00E-01	6.164E-03	6.213E-03	6.531E-03	7.484E-03	9.418E-03	1.239E-02	1.604E-02	1.973E-02	2.884E-02
2.00E-01---3.00E-01	3.522E-02	3.536E-02	3.587E-02	3.658E-02	3.717E-02	3.751E-02	3.769E-02	3.798E-02	3.878E-02
1.00E-01---2.00E-01	9.622E-02	9.642E-02	9.727E-02	9.888E-02	1.012E-01	1.043E-01	1.084E-01	1.134E-01	1.195E-01
5.00E-02---1.00E-01	2.833E-01	2.837E-01	2.858E-01	2.898E-01	2.952E-01	3.027E-01	3.120E-01	3.235E-01	3.370E-01
2.00E-02---5.00E-02	8.725E-02	8.732E-02	8.760E-02	8.813E-02	8.889E-02	8.989E-02	9.114E-02	9.261E-02	9.431E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.0856	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00---1.00E 01	7.212E-06	8.203E-06	9.413E-06	1.085E-05	1.248E-05	1.419E-05	1.574E-05	1.680E-05	9.860E-05
6.50E 00---8.00E 00	2.224E-05	2.640E-05	3.213E-05	4.048E-05	5.420E-05	8.102E-05	1.510E-04	4.344E-04	4.495E-04
5.00E 00---6.50E 00	1.238E-03	1.565E-03	2.040E-03	2.806E-03	4.227E-03	7.337E-03	1.585E-02	4.997E-02	3.538E-02
4.00E 00---5.00E 00	7.979E-04	1.042E-03	1.557E-03	1.843E-03	2.840E-03	5.225E-03	1.182E-02	3.365E-02	2.398E-02
3.00E 00---4.00E 00	1.334E-03	1.722E-03	2.208E-03	3.057E-03	4.758E-03	8.749E-03	1.923E-02	5.496E-02	3.776E-02
2.50E 00---3.00E 00	1.323E-03	1.701E-03	2.208E-03	3.071E-03	4.902E-03	9.038E-03	1.870E-02	6.377E-02	3.799E-02
2.00E 00---2.50E 00	2.207E-03	2.769E-03	3.613E-03	5.105E-03	8.059E-03	1.416E-02	2.755E-02	6.377E-02	5.941E-02
1.66E 00---2.00E 00	1.602E-03	2.026E-03	2.827E-03	4.393E-03	7.460E-03	1.329E-02	2.455E-02	4.933E-02	4.906E-02
1.33E 00---1.66E 00	1.942E-03	2.484E-03	3.533E-03	5.890E-03	9.892E-03	1.577E-02	2.790E-02	5.065E-02	5.899E-02
1.00E 00---1.33E 00	1.418E-03	2.115E-03	3.702E-03	6.598E-03	1.102E-02	1.597E-02	2.449E-02	3.408E-02	5.287E-02
8.00E-01---1.00E 00	2.227E-03	3.693E-03	6.237E-03	9.985E-03	1.474E-02	2.002E-02	2.533E-02	3.055E-02	6.756E-02
6.00E-01---8.00E-01	4.420E-03	7.141E-03	1.062E-02	1.454E-02	1.859E-02	2.258E-02	2.654E-02	3.066E-02	9.168E-02
4.00E-01---6.00E-01	1.528E-02	1.926E-02	2.313E-02	3.039E-02	3.039E-02	3.484E-02	4.095E-02	4.893E-02	2.029E-01
3.00E-01---4.00E-01	2.517E-02	2.706E-02	3.232E-02	3.658E-02	4.163E-02	4.668E-02	5.100E-02	5.100E-02	2.969E-01
2.00E-01---3.00E-01	4.037E-02	4.287E-02	4.623E-02	5.029E-02	5.498E-02	6.023E-02	6.589E-02	7.128E-02	5.467E-01
1.00E-01---2.00E-01	1.268E-01	1.354E-01	1.452E-01	1.581E-01	1.677E-01	1.795E-01	1.902E-01	1.980E-01	1.633E 00
5.00E-02---1.00E-01	3.525E-01	3.700E-01	3.890E-01	4.090E-01	4.290E-01	4.477E-01	4.631E-01	4.730E-01	4.460E 00
2.00E-02---5.00E-02	9.620E-02	9.823E-02	1.004E-01	1.024E-01	1.044E-01	1.061E-01	1.073E-01	1.081E-01	1.207E 00

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	4.251E-06	4.271E-06	4.351E-06	4.509E-06	4.745E-06	5.073E-06	5.511E-06	6.086E-06	6.836E-06
6.50E 00--8.00E 00	1.070E-05	1.080E-05	1.117E-05	1.181E-05	1.258E-05	1.348E-05	1.462E-05	1.619E-05	1.841E-05
5.00E 00--6.50E 00	3.761E-04	3.863E-04	4.226E-04	4.759E-04	5.248E-04	5.645E-04	6.058E-04	6.728E-04	7.906E-04
4.00E 00--5.00E 00	1.179E-04	1.373E-04	2.040E-04	2.925E-04	3.530E-04	3.708E-04	3.662E-04	3.841E-04	4.688E-04
3.00E 00--4.00E 00	2.498E-04	2.764E-04	3.681E-04	4.896E-04	5.735E-04	6.016E-04	6.050E-04	6.473E-04	7.828E-04
2.50E 00--3.00E 00	2.555E-04	2.806E-04	3.667E-04	4.792E-04	5.547E-04	5.795E-04	5.871E-04	6.399E-04	7.875E-04
2.00E 00--2.50E 00	6.466E-04	6.628E-04	7.197E-04	7.990E-04	8.669E-04	9.238E-04	9.985E-04	1.134E-03	1.361E-03
1.66E 00--2.00E 00	5.560E-04	5.504E-04	5.326E-04	5.157E-04	5.248E-04	5.803E-04	6.874E-04	8.377E-04	1.018E-03
1.33E 00--1.66E 00	8.491E-04	8.174E-04	7.127E-04	5.941E-04	5.649E-04	6.636E-04	8.620E-04	1.085E-03	1.280E-03
1.00E 00--1.33E 00	6.466E-04	5.996E-04	4.448E-04	2.734E-04	2.325E-04	3.573E-04	5.821E-04	7.892E-04	9.323E-04
8.00E 00--1.00E 00	4.143E-04	4.100E-04	4.044E-04	4.284E-04	5.103E-04	6.387E-04	7.817E-04	9.425E-04	1.232E-03
6.00E 00--8.00E 00	6.081E-05	1.427E-04	4.220E-04	7.809E-04	1.016E-03	1.082E-03	1.106E-03	1.390E-03	2.278E-03
4.00E 00--6.00E 00	3.235E-03	3.259E-03	3.354E-03	3.534E-03	3.855E-03	4.489E-03	5.681E-03	7.648E-03	1.043E-02
3.00E 00--4.00E 00	5.207E-03	5.258E-03	5.574E-03	6.499E-03	8.342E-03	1.114E-02	1.451E-02	1.785E-02	2.058E-02
2.00E 00--3.00E 00	3.173E-02	3.185E-02	3.230E-02	3.290E-02	3.335E-02	3.357E-02	3.362E-02	3.379E-02	3.443E-02
1.00E 00--2.00E 00	8.699E-02	8.718E-02	8.797E-02	8.945E-02	9.159E-02	9.448E-02	9.818E-02	1.028E-01	1.084E-01
5.00E 00--1.00E 01	2.623E-01	2.628E-01	2.647E-01	2.684E-01	2.737E-01	2.807E-01	2.896E-01	3.005E-01	3.133E-01
2.00E 00--5.00E 02	8.127E-02	8.133E-02	8.160E-02	8.211E-02	8.282E-02	8.377E-02	8.495E-02	8.634E-02	8.794E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	7.804E-06	9.048E-06	1.062E-05	1.257E-05	1.490E-05	1.748E-05	1.997E-05	2.176E-05	1.110E-04
6.50E 00--8.00E 00	2.151E-05	2.572E-05	3.144E-05	3.968E-05	5.286E-05	7.789E-05	1.415E-04	4.089E-04	4.307E-04
5.00E 00--6.50E 00	9.765E-04	1.243E-03	1.627E-03	2.244E-03	3.422E-03	6.071E-03	1.351E-02	4.492E-02	2.950E-02
4.00E 00--5.00E 00	6.175E-04	8.217E-04	1.069E-03	1.449E-03	2.279E-03	4.381E-03	1.015E-02	3.056E-02	2.005E-02
3.00E 00--4.00E 00	1.022E-03	1.336E-03	1.730E-03	2.368E-03	3.771E-03	7.218E-03	1.638E-02	4.812E-02	3.252E-02
2.50E 00--3.00E 00	1.027E-03	1.335E-03	1.735E-03	2.440E-03	4.034E-03	7.772E-03	1.655E-02	4.034E-02	3.180E-02
2.00E 00--2.50E 00	1.688E-03	2.130E-03	2.800E-03	4.038E-03	6.594E-03	1.197E-02	2.369E-02	5.474E-02	4.855E-02
1.66E 00--2.00E 00	1.240E-03	1.582E-03	2.250E-03	3.642E-03	6.434E-03	1.176E-02	2.184E-02	4.328E-02	4.157E-02
1.33E 00--1.66E 00	1.495E-03	1.931E-03	2.944E-03	5.005E-03	8.675E-03	1.471E-02	2.462E-02	4.346E-02	4.999E-02
1.00E 00--1.33E 00	1.149E-03	1.785E-03	3.295E-03	6.063E-03	1.034E-02	1.574E-02	2.247E-02	3.070E-02	4.766E-02
8.00E 00--1.00E 00	1.903E-03	3.303E-03	5.733E-03	9.281E-03	1.370E-02	1.845E-02	2.301E-02	2.717E-02	6.114E-02
6.00E 00--8.00E 00	4.007E-03	6.604E-03	9.869E-03	1.347E-02	1.709E-02	2.354E-02	2.383E-02	2.706E-02	8.305E-02
4.00E 00--6.00E 00	1.383E-02	1.743E-02	2.083E-02	2.386E-02	2.689E-02	3.055E-02	3.552E-02	4.170E-02	1.798E-01
3.00E 00--4.00E 00	2.253E-02	2.407E-02	2.589E-02	2.858E-02	3.288E-02	3.653E-02	4.051E-02	4.357E-02	2.636E-01
2.00E 00--3.00E 00	3.581E-02	3.800E-02	4.091E-02	4.438E-02	4.830E-02	5.259E-02	5.705E-02	6.100E-02	4.843E-01
1.00E 00--2.00E 00	1.150E-01	1.228E-01	1.317E-01	1.414E-01	1.517E-01	1.619E-01	1.710E-01	1.774E-01	1.478E 00
5.00E 00--1.00E 01	3.280E-01	3.445E-01	3.625E-01	3.813E-01	4.001E-01	4.174E-01	4.316E-01	4.406E-01	4.149E 00
2.00E 00--5.00E 02	8.972E-02	9.162E-02	9.359E-02	9.553E-02	9.735E-02	9.892E-02	1.001E-01	1.008E-01	1.125E 00

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	3.109E-06	3.127E-06	3.203E-06	3.342E-06	3.550E-06	3.841E-06	4.238E-06	4.782E-06	5.527E-06
6.00E 00---8.00E 00	6.935E-06	7.015E-06	7.315E-06	7.803E-06	8.372E-06	9.025E-06	9.863E-06	1.107E-05	1.286E-05
5.00E 00---6.00E 00	1.486E-04	1.554E-04	1.795E-04	2.124E-04	2.378E-04	2.585E-04	2.635E-04	2.898E-04	3.474E-04
4.00E 00---5.00E 00	4.491E-06	1.962E-05	6.656E-05	1.250E-04	1.599E-04	1.585E-04	1.372E-04	1.328E-04	1.761E-04
3.00E 00---4.00E 00	4.654E-05	6.504E-05	1.275E-04	2.050E-04	2.482E-04	2.468E-04	2.250E-04	2.308E-04	3.005E-04
2.50E 00---3.00E 00	5.329E-05	6.985E-05	1.269E-04	1.943E-04	2.303E-04	2.275E-04	2.114E-04	2.269E-04	3.033E-04
2.00E 00---2.50E 00	2.275E-04	2.359E-04	2.650E-04	3.018E-04	3.267E-04	3.421E-04	3.665E-04	4.248E-04	5.287E-04
1.66E 00---2.00E 00	2.464E-04	2.391E-04	2.148E-04	1.868E-04	1.603E-04	2.084E-04	3.480E-04	4.236E-04	4.236E-04
1.33E 00---1.66E 00	4.038E-04	3.788E-04	2.948E-04	2.001E-04	1.729E-04	2.354E-04	3.575E-04	4.720E-04	5.343E-04
1.00E 00---1.33E 00	3.355E-04	3.035E-04	1.571E-04	8.377E-05	6.378E-05	1.502E-04	2.860E-04	3.839E-04	4.200E-04
8.00E 01---1.00E 00	1.468E-04	1.471E-04	1.334E-04	1.797E-04	2.321E-04	2.959E-04	3.511E-04	4.125E-04	5.747E-04
6.00E 01---8.00E 00	-9.136E-05	-2.993E-05	1.388E-04	3.858E-04	4.970E-04	4.968E-04	4.721E-04	6.544E-04	1.283E-03
4.00E 01---6.00E 00	1.685E-03	1.693E-03	1.728E-03	1.808E-03	1.993E-03	2.408E-03	3.211E-03	4.522E-03	6.325E-03
3.00E 01---4.00E 00	1.697E-03	2.739E-03	2.982E-03	3.640E-03	4.888E-03	6.708E-03	8.152E-03	1.078E-02	1.226E-02
2.00E 01---3.00E 00	1.911E-02	1.917E-02	1.940E-02	1.967E-02	1.982E-02	1.978E-02	1.963E-02	1.957E-02	1.983E-02
1.00E 01---2.00E 00	5.153E-02	5.165E-02	5.214E-02	5.304E-02	5.345E-02	5.609E-02	5.829E-02	6.102E-02	6.431E-02
5.00E 02---1.00E 01	1.606E-01	1.609E-01	1.621E-01	1.644E-01	1.677E-01	1.722E-01	1.777E-01	1.844E-01	1.924E-01
2.00E 02---5.00E 02	5.002E-02	5.006E-02	5.023E-02	5.054E-02	5.098E-02	5.157E-02	5.229E-02	5.315E-02	5.412E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	6.549E-06	7.940E-06	9.918E-06	1.264E-05	1.634E-05	2.113E-05	2.659E-05	3.123E-05	1.072E-04
6.00E 00---8.00E 00	1.543E-05	1.900E-05	2.398E-05	3.116E-05	4.249E-05	6.252E-05	1.081E-04	2.988E-04	3.211E-04
5.00E 00---6.00E 00	4.434E-04	5.770E-04	7.583E-04	1.049E-03	1.543E-03	3.102E-03	7.478E-03	2.793E-02	1.549E-02
4.00E 00---5.00E 00	2.651E-04	3.713E-04	4.735E-04	6.222E-04	1.040E-03	2.302E-03	5.998E-03	1.944E-02	1.057E-02
3.00E 00---4.00E 00	4.302E-04	5.815E-04	7.358E-04	9.917E-04	1.699E-03	3.692E-03	9.134E-03	2.776E-02	1.621E-02
2.50E 00---3.00E 00	4.306E-04	5.734E-04	7.355E-04	1.064E-03	1.975E-03	4.326E-03	9.893E-03	2.619E-02	1.650E-02
2.00E 00---2.50E 00	6.719E-04	8.545E-04	1.145E-03	1.772E-03	3.226E-03	6.422E-03	1.320E-02	2.956E-02	2.364E-02
1.66E 00---1.66E 00	5.010E-04	6.406E-04	9.947E-04	1.840E-03	3.509E-03	6.956E-03	1.297E-02	2.433E-02	2.209E-02
1.33E 00---1.66E 00	5.856E-04	7.851E-04	1.393E-03	2.718E-03	5.061E-03	8.735E-03	1.424E-02	2.312E-02	2.654E-02
1.00E 00---1.33E 00	5.114E-04	9.204E-04	1.944E-03	3.860E-03	6.603E-03	9.941E-03	1.363E-02	1.752E-02	2.844E-02
8.00E 01---1.00E 00	1.025E-03	1.994E-03	3.651E-03	5.980E-03	8.712E-03	1.139E-02	1.355E-02	1.511E-02	3.671E-02
6.00E 01---8.00E 00	2.493E-03	4.242E-03	6.328E-03	8.478E-03	1.047E-02	1.220E-02	1.368E-02	1.492E-02	4.983E-02
4.00E 01---6.00E 00	8.431E-03	1.053E-02	1.236E-02	1.384E-02	1.522E-02	1.693E-02	1.922E-02	2.174E-02	1.035E-01
3.00E 01---4.00E 00	1.318E-02	1.385E-02	1.474E-02	1.619E-02	1.817E-02	2.021E-02	2.187E-02	2.276E-02	1.515E-01
2.00E 01---3.00E 00	2.055E-02	2.172E-02	2.325E-02	2.500E-02	2.689E-02	2.886E-02	3.076E-02	3.226E-02	2.771E-01
1.00E 01---2.00E 00	6.819E-02	7.265E-02	7.765E-02	8.303E-02	8.856E-02	9.385E-02	9.835E-02	1.012E-01	8.710E-01
5.00E 02---1.00E 01	2.014E-01	2.115E-01	2.224E-01	2.336E-01	2.447E-01	2.547E-01	2.627E-01	2.676E-01	2.542E 00
2.00E 02---5.00E 02	5.520E-02	5.634E-02	5.752E-02	5.867E-02	5.974E-02	6.065E-02	6.134E-02	6.175E-02	6.920E-01

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.70E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	1.636E-06	1.649E-06	1.697E-06	1.786E-06	1.911E-06	2.081E-06	2.317E-06	2.652E-06	3.130E-06
5.00E 00---6.50E 00	3.445E-06	3.498E-06	3.697E-06	4.003E-06	4.329E-06	4.677E-06	5.123E-06	5.808E-06	6.887E-06
3.50E 00---5.00E 00	5.162E-05	5.562E-05	6.955E-05	8.758E-05	9.951E-05	1.033E-04	1.044E-04	1.135E-04	1.402E-04
2.00E 00---3.50E 00	-1.949E-05	-9.423E-06	1.541E-05	5.304E-05	6.845E-05	6.218E-05	4.441E-05	3.825E-05	6.090E-05
1.50E 00---2.00E 00	-8.060E-06	3.762E-06	3.815E-05	8.165E-05	1.038E-04	9.340E-05	7.428E-05	7.339E-05	1.072E-04
1.00E 00---1.50E 00	3.029E-06	6.790E-06	3.705E-05	7.278E-05	8.915E-05	8.075E-05	6.744E-05	6.938E-05	1.075E-04
8.00E 01---1.00E 00	7.339E-05	7.705E-05	8.136E-05	1.036E-04	1.109E-04	1.135E-04	1.212E-04	1.454E-04	1.887E-04
6.00E 01---8.00E 01	1.071E-04	1.013E-04	8.158E-05	5.848E-05	5.061E-05	6.545E-05	9.918E-05	1.362E-04	1.614E-04
4.00E 01---6.00E 01	1.834E-04	1.676E-04	1.141E-04	5.110E-05	3.865E-05	7.780E-05	1.375E-04	1.918E-04	2.069E-04
3.00E 01---4.00E 01	1.572E-04	1.392E-04	6.898E-05	1.678E-05	1.655E-05	5.430E-05	1.262E-04	1.642E-04	1.622E-04
2.00E 01---3.00E 01	3.697E-05	3.896E-05	4.864E-05	6.945E-05	9.793E-05	1.233E-04	1.366E-04	1.542E-04	2.387E-04
1.00E 01---2.00E 01	-9.399E-05	-5.985E-05	3.646E-05	1.703E-04	2.186E-05	2.025E-04	1.744E-04	2.789E-04	6.488E-04
8.00E 02---1.00E 01	7.997E-04	8.007E-04	8.078E-04	8.371E-04	9.314E-04	1.163E-03	1.618E-03	2.345E-03	3.316E-03
6.00E 02---8.00E 02	1.274E-03	1.274E-03	1.425E-03	1.810E-03	2.509E-03	3.497E-03	4.600E-03	5.580E-03	6.253E-03
4.00E 02---6.00E 02	9.918E-03	9.946E-03	1.004E-02	1.014E-02	1.014E-02	1.005E-02	9.890E-03	9.791E-03	9.869E-03
3.00E 02---4.00E 02	2.599E-02	2.605E-02	2.630E-02	2.676E-02	2.742E-02	2.830E-02	2.940E-02	3.075E-02	3.236E-02
2.00E 02---3.00E 02	8.168E-02	8.183E-02	8.245E-02	8.361E-02	8.528E-02	8.751E-02	9.030E-02	9.365E-02	9.760E-02
1.00E 02---2.00E 02	2.539E-02	2.541E-02	2.550E-02	2.565E-02	2.588E-02	2.617E-02	2.653E-02	2.695E-02	2.743E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	3.818E-06	4.821E-06	6.315E-06	8.597E-06	1.210E-05	1.732E-05	2.428E-05	3.120E-05	7.422E-05
5.00E 00---6.50E 00	8.498E-06	1.080E-05	1.412E-05	1.924E-05	2.773E-05	4.293E-05	7.488E-05	1.20E-05	1.984E-04
3.50E 00---5.00E 00	1.865E-04	2.483E-04	3.261E-04	4.497E-04	7.241E-04	1.458E-03	3.785E-03	1.539E-02	7.494E-03
2.00E 00---3.50E 00	1.090E-04	1.596E-04	1.930E-04	2.366E-04	4.255E-04	1.109E-03	3.213E-03	1.087E-02	5.159E-03
1.50E 00---2.00E 00	1.734E-04	2.407E-04	2.892E-04	3.758E-04	7.079E-04	1.767E-03	4.699E-03	1.429E-02	7.553E-03
1.00E 00---1.50E 00	2.50E 00---3.00E 00	2.774E-04	4.135E-04	7.151E-04	9.830E-04	2.182E-03	5.248E-03	1.263E-02	7.827E-03
8.00E 01---1.00E 00	2.434E-04	3.073E-04	4.205E-04	7.151E-04	1.466E-03	3.154E-03	6.623E-03	1.418E-02	1.063E-02
6.00E 01---8.00E 01	1.776E-04	2.255E-04	3.996E-04	8.592E-04	1.833E-03	3.633E-03	6.697E-03	1.187E-02	1.059E-02
4.00E 01---6.00E 01	1.992E-04	2.816E-04	6.130E-04	1.355E-03	2.634E-03	4.536E-03	7.152E-03	1.079E-02	1.272E-02
3.00E 01---4.00E 01	4.292E-04	4.292E-04	1.034E-03	2.107E-03	3.586E-03	5.261E-03	6.833E-03	8.332E-03	1.452E-02
2.00E 01---3.00E 01	1.050E-03	1.050E-03	1.988E-03	3.239E-03	4.620E-03	6.675E-03	7.089E-03	7.089E-03	1.877E-02
1.00E 01---2.00E 01	2.310E-03	3.402E-03	3.402E-03	4.432E-03	5.346E-03	6.060E-03	6.627E-03	7.056E-03	2.540E-02
8.00E 02---1.00E 01	5.434E-03	6.260E-03	6.260E-03	6.872E-03	7.421E-03	8.136E-03	9.119E-03	1.011E-02	5.169E-02
6.00E 02---8.00E 02	6.858E-03	7.241E-03	7.241E-03	7.928E-03	8.500E-03	9.742E-03	1.033E-02	1.055E-02	7.533E-02
4.00E 02---6.00E 02	1.073E-02	1.142E-02	1.142E-02	1.259E-02	1.382E-02	1.382E-02	1.460E-02	1.517E-02	1.373E-01
3.00E 02---4.00E 02	3.639E-02	3.876E-02	4.127E-02	4.380E-02	4.616E-02	4.810E-02	4.810E-02	4.931E-02	4.355E-01
2.00E 02---3.00E 02	1.070E-01	1.123E-01	1.177E-01	1.229E-01	1.295E-01	1.276E-01	1.313E-01	1.335E-01	1.286E-01
1.00E 02---2.00E 02	2.851E-02	2.851E-02	2.908E-02	2.963E-02	3.014E-02	3.057E-02	3.090E-02	3.109E-02	3.503E-01

4 PI R\*\*2 FLUENCE AT 1500.0 METERS

6.36 TO 8.187 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	7.060E-07	7.133E-07	7.417E-07	7.897E-07	8.508E-07	9.291E-07	1.037E-06	1.198E-06	1.439E-06
5.00E 00--6.50E 00	1.413E-06	1.447E-06	1.568E-06	1.744E-06	1.906E-06	2.050E-06	2.230E-06	2.541E-06	3.078E-06
4.00E 00--5.00E 00	1.502E-05	1.718E-05	2.463E-05	3.393E-05	3.925E-05	3.959E-05	3.800E-05	4.044E-05	5.247E-05
3.00E 00--4.00E 00	-1.761E-05	-1.220E-05	1.847E-06	2.197E-05	2.826E-05	2.332E-05	9.098E-06	9.734E-06	2.004E-05
2.50E 00--3.00E 00	-1.491E-05	-8.371E-06	8.756E-06	3.307E-05	4.032E-05	3.460E-05	2.138E-05	1.844E-05	3.639E-05
2.00E 00--2.50E 00	-1.080E-05	-5.521E-06	8.500E-06	2.763E-05	3.281E-05	2.701E-05	1.727E-05	1.812E-05	3.627E-05
1.66E 00--2.00E 00	2.299E-05	2.437E-05	2.890E-05	3.359E-05	3.509E-05	3.492E-05	3.764E-05	4.781E-05	6.492E-05
1.33E 00--1.66E 00	4.740E-05	4.362E-05	3.063E-05	1.478E-05	1.012E-05	3.892E-05	3.544E-05	5.277E-05	5.989E-05
1.00E 00--1.33E 00	8.254E-05	7.362E-05	3.675E-05	9.463E-06	3.850E-06	2.085E-05	5.489E-05	7.630E-05	7.083E-05
8.00E-01--1.00E 00	7.030E-05	6.106E-05	2.622E-05	-2.450E-07	-7.724E-07	1.944E-05	5.324E-05	6.568E-05	5.617E-05
6.00E-01--8.00E-01	2.357E-06	4.448E-06	1.240E-05	2.605E-05	4.043E-05	4.867E-05	4.822E-05	5.134E-05	3.117E-04
4.00E-01--6.00E-01	-6.306E-05	-4.549E-05	5.110E-06	7.214E-06	9.167E-05	7.733E-05	5.814E-05	1.141E-04	3.117E-04
3.00E-01--4.00E-01	3.638E-04	3.628E-04	3.612E-04	3.699E-04	4.151E-04	5.351E-04	7.703E-04	1.140E-03	1.614E-03
2.00E-01--3.00E-01	5.465E-04	5.625E-04	6.463E-04	8.504E-04	1.209E-03	1.701E-03	2.233E-03	2.886E-03	2.971E-03
1.00E-01--2.00E-01	4.799E-03	4.810E-03	4.844E-03	4.870E-03	4.846E-03	4.766E-03	4.658E-03	4.582E-03	4.597E-03
5.00E-02--1.00E-01	1.220E-02	1.223E-02	1.235E-02	1.257E-02	1.288E-02	1.329E-02	1.380E-02	1.442E-02	1.515E-02
2.00E-02--5.00E-02	3.839E-02	3.846E-02	3.875E-02	3.929E-02	4.006E-02	4.109E-02	4.237E-02	4.391E-02	4.571E-02
	1.189E-02	1.190E-02	1.194E-02	1.201E-02	1.211E-02	1.225E-02	1.241E-02	1.260E-02	1.282E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00--8.00E 00	1.801E-06	2.348E-06	3.211E-06	4.647E-06	7.122E-06	1.134E-05	1.788E-05	2.546E-05	4.293E-05
5.00E 00--6.50E 00	3.912E-06	5.123E-06	6.926E-06	9.892E-06	1.530E-05	2.568E-05	4.734E-05	1.220E-04	1.081E-04
4.00E 00--5.00E 00	7.379E-05	1.006E-04	1.312E-04	1.795E-04	2.996E-04	6.527E-04	1.828E-03	7.971E-03	3.461E-03
3.00E 00--4.00E 00	4.460E-05	6.727E-05	7.450E-05	8.032E-05	1.615E-04	5.134E-04	1.637E-03	5.683E-03	2.429E-03
2.50E 00--3.00E 00	6.905E-05	9.671E-05	1.171E-04	1.306E-04	2.826E-04	8.222E-04	2.321E-03	6.952E-03	3.410E-03
2.00E 00--2.50E 00	6.380E-05	8.439E-05	9.675E-05	1.306E-04	2.826E-04	8.222E-04	2.321E-03	6.952E-03	3.410E-03
1.66E 00--2.00E 00	8.357E-05	1.027E-04	1.450E-04	1.504E-04	3.825E-04	1.055E-03	2.623E-03	6.151E-03	3.575E-03
1.33E 00--1.66E 00	5.676E-05	7.056E-05	1.547E-04	1.547E-04	6.529E-04	1.493E-03	3.159E-03	6.444E-03	4.642E-03
1.00E 00--1.33E 00	5.645E-05	9.318E-05	2.551E-04	3.919E-04	8.907E-04	1.784E-03	3.225E-03	5.416E-03	4.844E-03
8.00E-01--1.00E 00	7.037E-05	1.933E-04	5.136E-04	6.518E-04	1.297E-03	2.203E-03	3.351E-03	4.744E-03	5.807E-03
6.00E-01--8.00E-01	2.339E-04	5.280E-04	1.001E-03	1.066E-03	1.791E-03	2.549E-03	3.192E-03	3.662E-03	6.890E-03
4.00E-01--6.00E-01	6.735E-04	1.158E-03	1.611E-03	1.611E-03	2.246E-03	2.555E-03	3.031E-03	3.099E-03	8.903E-03
3.00E-01--4.00E-01	2.602E-03	2.602E-03	2.948E-03	3.182E-03	2.511E-03	2.781E-03	2.986E-03	3.135E-03	1.201E-02
2.00E-01--3.00E-01	3.100E-03	3.175E-03	3.332E-03	3.639E-03	3.387E-03	3.678E-03	4.091E-03	4.492E-03	2.418E-02
1.00E-01--2.00E-01	4.730E-03	4.965E-03	5.262E-03	5.582E-03	4.045E-03	4.411E-03	4.615E-03	4.660E-03	3.509E-02
5.00E-02--1.00E-01	1.601E-02	1.697E-02	1.802E-02	1.912E-02	5.909E-03	6.242E-03	6.557E-03	6.745E-03	6.383E-02
2.00E-02--5.00E-02	4.773E-02	4.994E-02	5.231E-02	5.470E-02	2.021E-02	2.121E-02	2.201E-02	2.251E-02	2.028E-01
	1.306E-02	1.331E-02	1.356E-02	1.381E-02	5.699E-02	5.902E-02	6.060E-02	6.154E-02	6.003E-01
					1.403E-02	1.422E-02	1.436E-02	1.445E-02	1.636E-01

## 6.36 TO 8.187 MEV NEUTRON SOURCE

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*2 FLUENCE AT 1800.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---1.00E 00	2.635E-07	2.678E-07	2.841E-07	3.090E-07	3.357E-07	3.655E-07	4.059E-07	4.708E-07	5.759E-07
5.00E 00---1.00E 00	4.904E-07	5.112E-07	5.849E-07	6.827E-07	7.567E-07	8.028E-07	8.537E-07	9.710E-07	1.209E-06
4.00E 00---5.00E 00	2.989E-06	4.117E-06	7.951E-06	1.254E-05	1.486E-05	1.437E-05	1.270E-05	1.318E-05	1.829E-05
3.00E 00---3.00E 00	-1.138E-05	-8.608E-06	1.387E-06	7.253E-06	1.275E-05	8.322E-06	7.756E-07	6.614E-07	5.813E-06
2.50E 00---3.00E 00	-1.099E-05	-7.726E-06	1.114E-06	1.310E-05	1.610E-05	1.216E-05	3.426E-06	4.360E-06	1.218E-05
2.00E 00---2.50E 00	-7.955E-06	-5.443E-06	1.357E-06	1.033E-05	1.211E-05	8.666E-06	2.538E-06	4.389E-06	1.227E-05
1.66E 00---2.00E 00	7.361E-06	7.812E-06	9.221E-06	1.043E-05	1.039E-05	9.788E-06	1.120E-05	1.560E-05	2.211E-05
1.33E 00---1.66E 00	2.150E-05	1.928E-05	1.108E-05	3.430E-06	3.211E-07	4.341E-06	1.339E-05	2.087E-05	2.095E-05
1.00E 00---1.33E 00	3.725E-05	3.256E-05	1.453E-05	-6.293E-07	-3.657E-06	5.043E-06	1.384E-05	3.047E-05	2.365E-05
8.00E-01---1.00E 00	3.075E-05	2.626E-05	9.715E-06	-2.990E-06	-3.084E-06	6.706E-06	2.201E-05	2.521E-05	1.787E-05
6.00E-01---8.00E-01	-4.787E-06	-3.316E-06	1.685E-06	1.001E-05	1.644E-05	1.886E-05	1.556E-05	1.491E-05	3.627E-05
4.00E-01---6.00E-01	-3.590E-05	-2.726E-05	7.682E-07	2.586E-05	4.073E-05	2.533E-05	1.848E-05	4.520E-05	1.463E-04
3.00E-01---4.00E-01	1.621E-04	1.610E-04	1.580E-04	1.598E-04	1.807E-04	2.399E-04	3.558E-04	5.344E-04	7.603E-04
2.00E-01---3.00E-01	2.334E-04	2.419E-04	2.856E-04	3.883E-04	5.630E-04	7.975E-04	1.044E-03	1.245E-03	1.362E-03
1.00E-01---2.00E-01	2.238E-03	2.242E-03	2.254E-03	2.257E-03	2.235E-03	2.184E-03	2.121E-03	2.075E-03	2.073E-03
5.00E-02---1.00E-01	5.536E-03	5.549E-03	5.604E-03	5.703E-03	5.843E-03	6.027E-03	6.254E-03	6.529E-03	6.853E-03
2.00E-02---5.00E-02	1.739E-02	1.742E-02	1.755E-02	1.779E-02	1.813E-02	1.859E-02	1.915E-02	1.983E-02	2.062E-02
	5.366E-03	5.370E-03	5.387E-03	5.418E-03	5.464E-03	5.522E-03	5.594E-03	5.678E-03	5.773E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---1.00E 00	7.394E-07	9.920E-07	1.406E-06	2.153E-06	3.599E-06	6.425E-06	1.149E-05	1.832E-05	2.442E-05
5.00E 00---5.00E 00	1.594E-06	2.147E-06	2.973E-06	4.436E-06	7.418E-06	1.378E-05	2.770E-05	7.234E-05	5.445E-05
4.00E 00---5.00E 00	2.778E-05	3.885E-05	4.966E-05	6.651E-05	1.166E-04	2.814E-04	8.567E-04	3.973E-03	1.552E-03
3.00E 00---3.00E 00	1.827E-05	2.805E-05	2.728E-05	2.311E-05	5.680E-05	2.328E-04	8.102E-04	2.852E-03	1.121E-03
2.50E 00---3.00E 00	2.751E-05	3.826E-05	3.728E-05	4.060E-05	1.095E-04	3.775E-04	1.120E-03	3.277E-03	1.517E-03
2.00E 00---2.50E 00	2.427E-05	3.080E-05	3.127E-05	5.203E-05	1.644E-04	4.997E-04	1.267E-03	2.891E-03	1.606E-03
1.66E 00---2.00E 00	2.765E-05	3.205E-05	4.764E-05	1.108E-04	2.907E-04	6.945E-04	1.466E-03	2.852E-03	2.012E-03
1.33E 00---1.66E 00	1.553E-05	1.885E-05	5.938E-05	1.780E-04	4.231E-04	8.466E-04	1.494E-03	2.388E-03	2.176E-03
1.00E 00---1.33E 00	1.235E-05	2.852E-05	1.522E-04	3.083E-04	6.183E-04	1.031E-03	1.513E-03	2.028E-03	2.597E-03
8.00E-01---1.00E 01	2.362E-05	8.618E-05	2.471E-04	5.164E-04	8.538E-04	1.180E-03	1.419E-03	1.554E-03	3.153E-03
6.00E-01---8.00E-01	1.076E-04	2.541E-04	4.821E-04	7.652E-04	1.043E-03	1.244E-03	1.325E-03	1.314E-03	4.068E-03
4.00E-01---6.00E-01	3.233E-04	5.557E-04	7.320E-04	9.908E-04	1.132E-03	1.229E-03	1.302E-03	1.357E-03	5.471E-03
3.00E-01---4.00E-01	9.967E-04	1.199E-03	1.393E-03	1.424E-03	1.498E-03	1.616E-03	1.789E-03	1.954E-03	1.094E-02
2.00E-01---3.00E-01	1.403E-03	1.423E-03	1.485E-03	1.619E-03	1.794E-03	1.942E-03	2.011E-03	2.013E-03	1.583E-02
1.00E-01---2.00E-01	2.127E-03	2.226E-03	2.350E-03	2.481E-03	2.612E-03	2.746E-03	2.874E-03	2.967E-03	2.875E-02
5.00E-02---1.00E-01	7.226E-03	7.643E-03	8.095E-03	8.564E-03	9.024E-03	9.441E-03	9.773E-03	9.976E-03	9.134E-02
2.00E-02---5.00E-02	2.150E-02	2.247E-02	2.349E-02	2.451E-02	2.548E-02	2.634E-02	2.700E-02	2.739E-02	2.701E-01
	5.876E-03	5.985E-03	6.094E-03	6.200E-03	6.296E-03	6.377E-03	6.437E-03	6.472E-03	7.359E-02

## 6.360 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	7.898E-11	9.615E-11	1.214E-10	1.368E-10	1.444E-10
-9.89401E-01	7.886E-11	9.599E-11	1.212E-10	1.367E-10	1.443E-10
-9.44575E-01	7.812E-11	9.509E-11	1.203E-10	1.358E-10	1.435E-10
-8.65631E-01	7.654E-11	9.328E-11	1.187E-10	1.340E-10	1.419E-10
-7.55044E-01	7.703E-11	9.401E-11	1.202E-10	1.373E-10	1.466E-10
-6.17876E-01	8.018E-11	9.796E-11	1.256E-10	1.437E-10	1.537E-10
-4.58017E-01	8.679E-11	1.061E-10	1.359E-10	1.554E-10	1.659E-10
-2.81605E-01	9.695E-11	1.186E-10	1.514E-10	1.725E-10	1.834E-10
-9.50125E-02	1.101E-10	1.346E-10	1.712E-10	1.941E-10	2.056E-10
9.50125E-02	1.282E-10	1.875E-10	2.665E-10	2.127E-10	2.245E-10
2.81605E-01	1.566E-10	1.713E-10	2.148E-10	2.559E-10	2.703E-10
4.58017E-01	1.961E-10	2.310E-10	2.581E-10	2.872E-10	3.033E-10
6.17876E-01	2.500E-10	2.718E-10	3.330E-10	3.675E-10	3.872E-10
7.55044E-01	5.024E-10	4.486E-10	4.587E-10	4.979E-10	5.197E-10
8.65631E-01	1.194E-09	7.748E-10	7.671E-10	8.099E-10	8.208E-10
9.44575E-01	2.869E-09	2.668E-09	2.055E-09	1.805E-09	1.663E-09
9.89401E-01	1.459E-08	1.477E-08	1.365E-08	1.180E-08	9.915E-09
TOTAL	6.054E-09	5.982E-09	5.903E-09	5.784E-09	5.561E-09
COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.210E-10	1.011E-10	4.911E-11	2.009E-11	7.385E-12
-9.89401E-01	1.211E-10	1.012E-10	4.920E-11	2.014E-11	7.403E-12
-9.44575E-01	1.215E-10	1.018E-10	4.962E-11	2.034E-11	7.485E-12
-8.65631E-01	1.231E-10	1.033E-10	5.056E-11	2.077E-11	7.651E-12
-7.55044E-01	1.265E-10	1.064E-10	5.221E-11	2.148E-11	7.919E-12
-6.17876E-01	1.328E-10	1.117E-10	5.483E-11	2.256E-11	8.317E-12
-4.58017E-01	1.426E-10	1.197E-10	5.862E-11	2.408E-11	8.868E-12
-2.81605E-01	1.561E-10	1.308E-10	6.700E-11	2.610E-11	9.597E-12
-9.50125E-02	1.732E-10	1.447E-10	7.019E-11	2.869E-11	1.053E-11
9.50125E-02	1.942E-10	1.620E-10	7.838E-11	3.198E-11	1.173E-11
2.81605E-01	2.207E-10	1.842E-10	8.907E-11	3.631E-11	1.306E-11
4.58017E-01	2.583E-10	2.155E-10	1.041E-10	4.233E-11	1.546E-11
6.17876E-01	3.184E-10	2.650E-10	1.269E-10	5.123E-11	1.860E-11
7.55044E-01	4.239E-10	3.497E-10	1.639E-10	6.503E-11	2.331E-11
8.65631E-01	6.219E-10	5.042E-10	2.267E-10	8.729E-11	3.040E-11
9.44575E-01	1.052E-09	8.230E-10	3.430E-10	1.255E-10	4.240E-11
9.89401E-01	3.820E-09	2.577E-09	7.832E-10	2.354E-10	6.993E-11
TOTAL	3.727E-09	2.976E-09	1.326E-09	5.167E-10	1.840E-10
COSINE	RANGE (METERS)				
	1800.0	1500.0	1200.0	900.0	600.0
-1.00000E-00	2.519E-12	7.385E-12	2.009E-11	4.911E-11	1.011E-10
-9.89401E-01	2.525E-12	7.403E-12	2.014E-11	4.920E-11	1.012E-10
-9.44575E-01	2.555E-12	7.485E-12	2.034E-11	4.962E-11	1.018E-10
-8.65631E-01	2.613E-12	7.651E-12	2.077E-11	5.056E-11	1.033E-10
-7.55044E-01	2.706E-12	7.919E-12	2.148E-11	5.221E-11	1.064E-10
-6.17876E-01	2.842E-12	8.317E-12	2.256E-11	5.483E-11	1.117E-10
-4.58017E-01	3.028E-12	8.868E-12	2.408E-11	5.862E-11	1.197E-10
-2.81605E-01	3.274E-12	9.597E-12	2.610E-11	6.700E-11	1.308E-10
-9.50125E-02	3.589E-12	1.053E-11	2.869E-11	7.019E-11	1.447E-10
9.50125E-02	3.994E-12	1.173E-11	3.198E-11	7.838E-11	1.620E-10
2.81605E-01	4.523E-12	1.306E-11	3.631E-11	8.907E-11	1.842E-10
4.58017E-01	5.246E-12	1.546E-11	4.233E-11	1.041E-10	2.155E-10
6.17876E-01	6.276E-12	1.860E-11	5.123E-11	1.269E-10	2.650E-10
7.55044E-01	7.788E-12	2.331E-11	6.503E-11	1.639E-10	3.497E-10
8.65631E-01	1.006E-11	3.040E-11	8.729E-11	2.267E-10	5.042E-10
9.44575E-01	1.356E-11	4.240E-11	1.255E-10	3.430E-10	8.230E-10
9.89401E-01	2.050E-11	6.993E-11	2.354E-10	7.832E-10	2.577E-09
TOTAL	6.136E-11	1.840E-10	5.167E-10	1.326E-09	2.976E-09
COSINE	RANGE (METERS)				
	400.0	300.0	250.0	200.0	180.0
-1.00000E-00	1.379E-10	1.462E-10	1.444E-10	1.368E-10	1.214E-10
-9.89401E-01	1.380E-10	1.462E-10	1.443E-10	1.367E-10	1.212E-10
-9.44575E-01	1.381E-10	1.459E-10	1.435E-10	1.358E-10	1.203E-10
-8.65631E-01	1.394E-10	1.463E-10	1.419E-10	1.340E-10	1.203E-10
-7.55044E-01	1.430E-10	1.499E-10	1.466E-10	1.373E-10	1.202E-10
-6.17876E-01	1.500E-10	1.568E-10	1.537E-10	1.437E-10	1.256E-10
-4.58017E-01	1.614E-10	1.692E-10	1.659E-10	1.554E-10	1.359E-10
-2.81605E-01	1.773E-10	1.868E-10	1.834E-10	1.725E-10	1.514E-10
-9.50125E-02	1.974E-10	2.089E-10	2.056E-10	1.941E-10	1.712E-10
9.50125E-02	2.214E-10	2.371E-10	2.245E-10	2.127E-10	2.065E-10
2.81605E-01	2.521E-10	2.659E-10	2.703E-10	2.559E-10	2.148E-10
4.58017E-01	2.945E-10	3.138E-10	3.033E-10	2.872E-10	2.581E-10
6.17876E-01	3.643E-10	3.859E-10	3.872E-10	3.675E-10	3.330E-10
7.55044E-01	4.893E-10	5.267E-10	5.197E-10	4.979E-10	4.587E-10
8.65631E-01	7.329E-10	8.069E-10	8.208E-10	8.099E-10	7.671E-10
9.44575E-01	1.299E-09	1.545E-09	1.663E-09	1.805E-09	2.055E-09
9.89401E-01	5.640E-09	8.257E-09	9.915E-09	1.180E-08	1.365E-08
TOTAL	4.524E-09	5.268E-09	5.561E-09	5.784E-09	5.903E-09

4 PI 8\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CN\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

6.360 TO 8.187 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	1.083E-10	1.328E-10	1.704E-10	1.955E-10	2.101E-10	2.165E-10
-9.89401E-01	1.081E-10	1.326E-10	1.703E-10	1.954E-10	2.101E-10	2.165E-10
-9.44575E-01	1.073E-10	1.316E-10	1.693E-10	1.947E-10	2.097E-10	2.163E-10
-8.65631E-01	1.052E-10	1.292E-10	1.673E-10	1.936E-10	2.095E-10	2.172E-10
-7.55044E-01	1.060E-10	1.304E-10	1.696E-10	1.970E-10	2.140E-10	2.225E-10
-6.17876E-01	1.104E-10	1.359E-10	1.770E-10	2.060E-10	2.239E-10	2.323E-10
-4.58017E-01	1.195E-10	1.471E-10	1.913E-10	2.221E-10	2.408E-10	2.496E-10
-2.81605E-01	1.335E-10	1.642E-10	2.126E-10	2.458E-10	2.652E-10	2.741E-10
-9.50125E-02	1.516E-10	1.864E-10	2.400E-10	2.757E-10	2.960E-10	3.049E-10
9.50125E-02	1.764E-10	2.592E-10	2.887E-10	3.015E-10	3.223E-10	3.442E-10
2.81605E-01	2.153E-10	2.371E-10	3.002E-10	3.610E-10	3.856E-10	3.840E-10
4.58017E-01	2.713E-10	3.191E-10	3.599E-10	4.041E-10	4.310E-10	4.501E-10
6.17876E-01	3.497E-10	3.771E-10	4.630E-10	5.150E-10	5.469E-10	5.498E-10
7.55044E-01	7.140E-10	6.289E-10	6.388E-10	6.967E-10	7.314E-10	7.455E-10
8.65631E-01	1.712E-09	1.099E-09	1.076E-09	1.135E-09	1.154E-09	1.138E-09
9.44575E-01	4.139E-09	3.835E-09	2.931E-09	2.560E-09	2.352E-09	2.185E-09
9.89401E-01	2.121E-08	2.144E-08	1.978E-08	1.706E-08	1.432E-08	1.190E-08
TOTAL	8.665E-09	8.529E-09	8.397E-09	8.242E-09	7.957E-09	7.582E-09

6.608E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-00	1.915E-10	1.649E-10	8.648E-11	3.757E-11	1.446E-11	5.114E-12
-9.89401E-01	1.917E-10	1.651E-10	8.648E-11	3.765E-11	1.450E-11	5.126E-12
-9.44575E-01	1.924E-10	1.660E-10	8.735E-11	3.800E-11	1.464E-11	5.177E-12
-8.65631E-01	1.949E-10	1.685E-10	8.887E-11	3.870E-11	1.492E-11	5.278E-12
-7.55044E-01	2.001E-10	1.731E-10	9.146E-11	3.985E-11	1.536E-11	5.434E-12
-6.17876E-01	2.092E-10	1.809E-10	9.546E-11	4.155E-11	1.600E-11	5.658E-12
-4.58017E-01	2.233E-10	1.926E-10	1.011E-10	4.390E-11	1.688E-11	5.959E-12
-2.81605E-01	2.425E-10	2.085E-10	1.087E-10	4.699E-11	1.802E-11	6.351E-12
-9.50125E-02	2.668E-10	2.285E-10	1.183E-10	5.090E-11	1.946E-11	6.846E-12
9.50125E-02	2.964E-10	2.531E-10	1.302E-10	5.582E-11	2.128E-11	7.470E-12
2.81605E-01	3.336E-10	2.844E-10	1.456E-10	6.217E-11	2.363E-11	8.271E-12
4.58017E-01	3.858E-10	3.283E-10	1.670E-10	7.086E-11	2.679E-11	9.341E-12
6.17876E-01	4.693E-10	3.972E-10	1.992E-10	8.353E-11	3.130E-11	1.084E-11
7.55044E-01	6.160E-10	5.152E-10	2.509E-10	1.030E-10	3.799E-11	1.300E-11
8.65631E-01	8.931E-10	7.313E-10	3.899E-10	1.343E-10	4.830E-11	1.622E-11
9.44575E-01	1.500E-09	1.181E-09	5.027E-10	1.881E-10	6.493E-11	2.117E-11
9.89401E-01	5.491E-09	3.706E-09	1.134E-09	3.453E-10	1.042E-10	3.105E-11
TOTAL	5.537E-09	4.500E-09	2.112E-09	8.609E-10	3.181E-10	1.093E-10



## 6.360 TO 8.187 MEV NEUTRON SOURCE

<sup>4</sup>PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-01	8.30E-09	9.79E-09	1.24E-08	1.40E-08	1.48E-08
-9.89401E-01	8.020E-09	9.778E-09	1.23E-08	1.40E-08	1.48E-08
-9.44575E-01	7.949E-09	9.693E-09	1.231E-08	1.39E-08	1.48E-08
-8.55631E-01	7.792E-09	9.512E-09	1.215E-08	1.387E-08	1.48E-08
-7.55044E-01	7.845E-09	9.591E-09	1.231E-08	1.41E-08	1.51E-08
-6.17876E-01	8.168E-09	9.955E-09	1.285E-08	1.476E-08	1.58E-08
-4.58017E-01	8.841E-09	1.083E-08	1.391E-08	1.596E-08	1.709E-08
-2.81605E-01	9.122E-09	1.210E-08	1.549E-08	1.770E-08	1.888E-08
-9.50125E-02	1.122E-08	1.374E-08	1.752E-08	1.992E-08	2.115E-08
9.50125E-02	1.307E-08	1.915E-08	2.114E-08	2.182E-08	2.368E-08
2.81605E-01	1.597E-08	1.750E-08	2.197E-08	2.623E-08	2.778E-08
4.58017E-01	2.07E-08	2.359E-08	2.642E-08	2.943E-08	3.114E-08
6.17876E-01	2.576E-08	2.785E-08	3.408E-08	3.767E-08	3.975E-08
7.55044E-01	5.228E-08	4.628E-08	4.705E-08	5.110E-08	5.359E-08
8.55631E-01	1.249E-07	8.051E-08	7.915E-08	8.341E-08	8.454E-08
9.44575E-01	3.012E-07	2.795E-07	2.143E-07	1.875E-07	1.723E-07
9.89401E-01	1.539E-06	1.556E-06	1.437E-06	1.240E-06	1.041E-06
TOTAL	6.325E-07	6.231E-07	6.129E-07	5.996E-07	5.761E-07
					5.459E-07
					4.694E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-01	1.270E-08	1.069E-08	5.286E-09	2.195E-09	8.164E-10
-9.89401E-01	1.271E-08	1.070E-08	5.296E-09	2.200E-09	8.185E-10
-9.44575E-01	1.275E-08	1.076E-08	5.341E-09	2.222E-09	8.273E-10
-8.55631E-01	1.292E-08	1.092E-08	5.441E-09	2.268E-09	8.450E-10
-7.55044E-01	1.328E-08	1.124E-08	5.614E-09	2.343E-09	8.735E-10
-6.17876E-01	1.393E-08	1.179E-08	5.887E-09	2.456E-09	9.156E-10
-4.58017E-01	1.493E-08	1.262E-08	6.280E-09	2.615E-09	9.736E-10
-2.81605E-01	1.632E-08	1.375E-08	6.807E-09	2.826E-09	1.050E-09
-9.50125E-02	1.808E-08	1.519E-08	7.478E-09	3.095E-09	1.148E-09
9.50125E-02	2.022E-08	1.696E-08	8.322E-09	3.436E-09	1.272E-09
2.81605E-01	2.294E-08	1.923E-08	9.422E-09	3.883E-09	1.435E-09
4.58017E-01	2.678E-08	2.244E-08	1.096E-08	4.502E-09	1.658E-09
6.17876E-01	3.294E-08	2.751E-08	1.311E-08	5.416E-09	1.981E-09
7.55044E-01	4.378E-08	3.621E-08	1.715E-08	6.835E-09	2.465E-09
8.55631E-01	6.423E-08	5.216E-08	2.357E-08	9.128E-09	3.217E-09
-4.44575E-01	1.088E-07	8.521E-08	3.561E-08	1.308E-08	4.436E-09
9.89401E-01	3.995E-07	2.693E-07	8.169E-08	2.456E-08	7.307E-09
TOTAL	3.877E-07	3.105E-07	1.398E-07	5.499E-08	1.974E-08
					6.631E-09

4. P1 R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON) 6.360 TO 8.187 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	4.037E-11	4.801E-11	5.764E-11	6.248E-11	6.384E-11	6.289E-11
-9.89401E-01	4.084E-11	4.796E-11	5.757E-11	6.242E-11	6.380E-11	6.287E-11
-9.44575E-01	4.028E-11	4.750E-11	5.711E-11	6.203E-11	6.348E-11	6.257E-11
-8.65631E-01	3.928E-11	4.633E-11	5.609E-11	6.121E-11	6.302E-11	6.255E-11
-7.55044E-01	3.957E-11	4.673E-11	5.676E-11	6.236E-11	6.450E-11	6.427E-11
-6.17876E-01	4.143E-11	4.898E-11	5.968E-11	6.575E-11	6.814E-11	6.768E-11
-4.58017E-01	4.537E-11	5.375E-11	6.556E-11	7.221E-11	7.470E-11	7.421E-11
-2.81605E-01	5.153E-11	6.120E-11	7.457E-11	8.191E-11	8.438E-11	8.364E-11
-9.50125E-02	5.958E-11	7.087E-11	8.616E-11	9.424E-11	9.666E-11	9.559E-11
9.50125E-02	7.034E-11	1.022E-10	1.036E-10	1.063E-10	1.086E-10	1.102E-10
2.81605E-01	8.722E-11	9.351E-11	1.130E-10	1.274E-10	1.305E-10	1.260E-10
4.58017E-01	1.142E-10	1.305E-10	1.361E-10	1.475E-10	1.511E-10	1.511E-10
6.17876E-01	1.543E-10	1.551E-10	1.807E-10	1.926E-10	1.973E-10	1.928E-10
7.55044E-01	3.390E-10	2.798E-10	2.641E-10	2.770E-10	2.819E-10	2.786E-10
8.65631E-01	4.463E-10	5.165E-10	4.731E-10	4.825E-10	4.776E-10	4.612E-10
9.44575E-01	2.094E-09	1.914E-09	1.413E-09	1.193E-09	1.067E-09	9.692E-10
9.89401E-01	1.097E-08	1.103E-08	1.013E-08	8.675E-09	7.224E-09	5.959E-09
TOTAL	4.206E-09	4.024E-09	3.761E-09	3.528E-09	3.261E-09	2.982E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-00	4.825E-11	3.937E-11	1.837E-11	7.428E-12	2.732E-12	9.373E-13
-9.89401E-01	4.828E-11	3.940E-11	1.840E-11	7.442E-12	2.737E-12	9.394E-13
-9.44575E-01	4.832E-11	3.953E-11	1.853E-11	7.507E-12	2.763E-12	9.487E-13
-8.65631E-01	4.890E-11	4.009E-11	1.886E-11	7.650E-12	2.818E-12	9.678E-13
-7.55044E-01	5.032E-11	4.132E-11	1.948E-11	7.905E-12	2.911E-12	9.993E-13
-6.17876E-01	5.320E-11	4.365E-11	2.053E-11	8.312E-12	3.055E-12	1.047E-12
-4.58017E-01	5.790E-11	4.738E-11	2.212E-11	8.904E-12	3.260E-12	1.114E-12
-2.81605E-01	6.454E-11	5.257E-11	2.428E-11	9.705E-12	3.534E-12	1.203E-12
-9.50125E-02	7.295E-11	5.915E-11	2.704E-11	1.073E-11	3.887E-12	1.318E-12
9.50125E-02	8.308E-11	6.718E-11	3.051E-11	1.204E-11	4.342E-12	1.467E-12
2.81605E-01	9.585E-11	7.749E-11	3.511E-11	1.380E-11	4.959E-12	1.669E-12
4.58017E-01	1.146E-10	9.270E-11	4.194E-11	1.642E-11	5.867E-12	1.965E-12
6.17876E-01	1.470E-10	1.188E-10	5.335E-11	2.067E-11	7.312E-12	2.427E-12
7.55044E-01	2.089E-10	1.675E-10	7.356E-11	2.793E-11	9.712E-12	3.178E-12
8.65631E-01	3.334E-10	2.633E-10	1.110E-10	4.075E-11	1.380E-11	4.419E-12
9.44575E-01	6.207E-10	4.740E-10	1.656E-10	6.463E-11	2.099E-11	6.507E-12
9.89401E-01	2.649E-09	1.751E-09	4.998E-10	1.415E-10	3.986E-11	1.116E-11
TOTAL	1.895E-09	1.452E-09	5.929E-10	2.189E-10	7.536E-11	2.462E-11

## 6.360 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.028E-09	1.252E-09	1.580E-09	1.781E-09	1.879E-09
-9.89401E-01	1.028E-09	1.252E-09	1.579E-09	1.780E-09	1.879E-09
-9.44575E-01	1.021E-09	1.242E-09	1.571E-09	1.774E-09	1.875E-09
-8.65631E-01	1.001E-09	1.220E-09	1.551E-09	1.762E-09	1.872E-09
-7.55044E-01	1.009E-09	1.232E-09	1.573E-09	1.795E-09	1.914E-09
-6.17876E-01	1.032E-09	1.284E-09	1.644E-09	1.79E-09	2.066E-09
-4.58017E-01	1.140E-09	1.392E-09	1.780E-09	2.07E-09	2.207E-09
-2.81605E-01	1.276E-09	1.559E-09	1.987E-09	2.26E-09	2.398E-09
-9.50125E-02	1.454E-09	1.775E-09	2.253E-09	2.550E-09	2.695E-09
9.50125E-02	1.657E-09	2.492E-09	2.737E-09	2.799E-09	2.947E-09
2.81605E-01	2.075E-09	2.274E-09	2.839E-09	3.386E-09	3.570E-09
4.58017E-01	2.646E-09	3.081E-09	3.439E-09	3.805E-09	4.009E-09
6.17876E-01	3.476E-09	3.682E-09	4.453E-09	4.909E-09	5.158E-09
7.55044E-01	7.279E-09	6.266E-09	6.222E-09	6.731E-09	7.006E-09
8.65631E-01	1.768E-08	1.116E-08	1.071E-08	1.118E-08	1.129E-08
9.44575E-01	4.312E-08	3.775E-08	3.001E-08	2.592E-08	2.362E-08
9.89401E-01	2.231E-07	2.251E-07	2.071E-07	1.782E-07	1.491E-07
TOTAL	8.903E-08	8.683E-08	8.415E-08	8.138E-08	7.744E-08

COSINE	RANGE (METERS)				
	300.0	400.0	500.0	600.0	700.0
-1.00000E 00	1.902E-09	1.793E-09	1.677E-11	3.309E-11	3.317E-11
-9.89401E-01	1.902E-09	1.794E-09	3.317E-11	3.309E-11	3.317E-11
-9.44575E-01	1.900E-09	1.796E-09	3.355E-11	3.355E-11	3.355E-11
-8.65631E-01	1.907E-09	1.816E-09	3.431E-11	3.431E-11	3.431E-11
-7.55044E-01	1.955E-09	1.862E-09	3.550E-11	3.550E-11	3.550E-11
-6.17876E-01	2.045E-09	1.953E-09	3.726E-11	3.726E-11	3.726E-11
-4.58017E-01	2.207E-09	2.102E-09	3.968E-11	3.968E-11	3.968E-11
-2.81605E-01	2.439E-09	2.311E-09	4.284E-11	4.284E-11	4.284E-11
-9.50125E-02	2.735E-09	2.578E-09	4.691E-11	4.691E-11	4.691E-11
9.50125E-02	3.114E-09	2.899E-09	5.214E-11	5.214E-11	5.214E-11
2.81605E-01	3.499E-09	3.308E-09	5.899E-11	5.899E-11	5.899E-11
4.58017E-01	4.143E-09	3.874E-09	6.838E-11	6.838E-11	6.838E-11
6.17876E-01	5.126E-09	4.820E-09	8.190E-11	8.190E-11	8.190E-11
7.55044E-01	7.084E-09	6.550E-09	1.020E-10	1.020E-10	1.020E-10
8.65631E-01	1.106E-08	9.989E-09	1.328E-10	1.328E-10	1.328E-10
9.44575E-01	2.178E-08	1.816E-08	5.696E-10	5.696E-10	5.696E-10
9.89401E-01	1.236E-07	8.370E-08	2.813E-10	2.813E-10	2.813E-10
TOTAL	7.277E-08	6.172E-08	2.422E-09	2.422E-09	2.422E-09

## 6.360 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.784E-09	2.134E-09	2.604E-09	2.848E-09	2.925E-09
-9.89401E-01	1.781E-09	2.130E-09	2.599E-09	2.843E-09	2.922E-09
-9.44575E-01	1.761E-09	2.106E-09	2.574E-09	2.823E-09	2.905E-09
-8.65631E-01	1.720E-09	2.057E-09	2.529E-09	2.789E-09	2.866E-09
-7.55044E-01	1.726E-09	2.068E-09	2.555E-09	2.832E-09	2.943E-09
-6.17876E-01	1.795E-09	2.154E-09	2.670E-09	2.968E-09	3.090E-09
-4.58017E-01	1.945E-09	2.339E-09	2.902E-09	3.266E-09	3.344E-09
-2.81605E-01	2.180E-09	2.625E-09	3.255E-09	3.609E-09	3.741E-09
-9.50125E-02	2.486E-09	2.996E-09	3.704E-09	4.095E-09	4.231E-09
9.50125E-02	2.905E-09	4.226E-09	4.497E-09	4.519E-09	4.652E-09
2.81605E-01	3.567E-09	5.845E-09	4.708E-09	5.475E-09	5.657E-09
4.58017E-01	4.501E-09	5.248E-09	5.698E-09	6.178E-09	6.405E-09
6.17876E-01	5.793E-09	6.193E-09	7.434E-09	8.040E-09	8.313E-09
7.55044E-01	1.184E-08	1.041E-08	1.041E-08	1.111E-08	1.142E-08
8.65631E-01	2.843E-08	1.773E-08	1.773E-08	1.849E-08	1.852E-08
9.44575E-01	6.864E-08	6.365E-08	4.860E-08	4.229E-08	3.861E-08
9.89401E-01	3.507E-07	3.547E-07	3.274E-07	2.824E-07	2.369E-07
TOTAL	1.433E-07	1.404E-07	1.361E-07	1.310E-07	1.236E-07

9.545E-08

1.150E-07

1.236E-07

1.310E-07

1.361E-07

1.404E-07

1.433E-07

1.465E-08

3.174E-09

1.039E-09

4.116E-11

4.125E-11

4.165E-11

4.247E-11

4.382E-11

4.587E-11

4.874E-11

5.257E-11

5.753E-11

6.399E-11

7.273E-11

8.527E-11

1.042E-10

1.338E-10

1.806E-10

2.562E-10

4.145E-10

4 PI R\*\*2 IONIZING SILICON KERM, (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

6.260 TO 8.187 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E 00	1.842E-10	2.123E-10	2.472E-10	2.625E-10	2.558E-10
-9.89401E-01	1.869E-10	2.153E-10	2.503E-10	2.654E-10	2.581E-10
-9.44575E-01	1.918E-10	2.210E-10	2.568E-10	2.717E-10	2.618E-10
-8.65631E-01	1.895E-10	2.185E-10	2.546E-10	2.720E-10	2.627E-10
-7.55044E-01	1.973E-10	2.277E-10	2.671E-10	2.855E-10	2.833E-10
-6.17876E-01	2.118E-10	2.442E-10	2.864E-10	3.068E-10	3.015E-10
-4.58017E-01	2.388E-10	2.755E-10	3.232E-10	3.465E-10	3.411E-10
-2.561605E-01	2.834E-10	3.281E-10	3.852E-10	4.123E-10	4.037E-10
-9.50125E-02	3.459E-10	4.024E-10	4.725E-10	5.036E-10	4.897E-10
9.50125E-02	4.258E-10	6.417E-10	6.105E-10	5.958E-10	5.976E-10
2.81605E-01	5.363E-10	5.843E-10	6.720E-10	7.556E-10	7.099E-10
4.58017E-01	8.428E-10	8.822E-10	8.756E-10	9.033E-10	8.905E-10
6.17876E-01	1.422E-09	1.174E-09	1.213E-09	1.279E-09	1.226E-09
7.55044E-01	3.886E-09	2.654E-09	2.039E-09	2.079E-09	2.020E-09
8.65631E-01	1.062E-08	5.768E-09	4.485E-09	4.267E-09	3.912E-09
9.44575E-01	2.775E-08	2.588E-08	1.677E-08	1.316E-08	1.118E-08
9.89401E-01	1.538E-07	1.536E-07	1.386E-07	1.170E-07	9.595E-08
TOTAL	5.140E-08	4.661E-08	4.018E-08	3.530E-08	2.690E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E 00	1.863E-10	1.485E-10	6.500E-11	2.485E-11	2.875E-12
-9.89401E-01	1.876E-10	1.494E-10	6.529E-11	2.496E-11	2.887E-12
-9.44575E-01	1.901E-10	1.516E-10	6.647E-11	2.540E-11	2.937E-12
-8.65631E-01	1.970E-10	1.571E-10	6.867E-11	2.624E-11	3.034E-12
-7.55044E-01	2.061E-10	1.645E-10	7.212E-11	2.757E-11	3.186E-12
-6.17876E-01	2.222E-10	1.773E-10	7.770E-11	2.966E-11	3.418E-12
-4.58017E-01	2.496E-10	1.988E-10	8.651E-11	3.284E-11	3.757E-12
-2.81605E-01	2.921E-10	2.315E-10	9.940E-11	3.739E-11	4.229E-12
-9.50125E-02	3.494E-10	2.751E-10	1.165E-10	4.339E-11	4.852E-12
9.50125E-02	4.187E-10	3.284E-10	1.378E-10	5.105E-11	5.669E-12
2.81605E-01	5.036E-10	3.951E-10	1.659E-10	6.146E-11	6.814E-12
4.58017E-01	6.315E-10	4.971E-10	2.102E-10	7.801E-11	8.638E-12
6.17876E-01	8.816E-10	6.953E-10	2.939E-10	1.086E-10	1.187E-11
7.55044E-01	1.432E-09	1.122E-09	4.651E-10	1.685E-10	1.786E-11
8.65631E-01	2.678E-09	2.067E-09	8.223E-10	2.880E-10	2.901E-11
9.44575E-01	5.852E-09	4.365E-09	1.615E-09	5.361E-10	4.999E-11
9.89401E-01	3.275E-08	2.108E-08	5.601E-09	1.486E-09	1.049E-10
TOTAL	1.478E-08	1.072E-08	3.849E-09	1.292E-09	1.275E-10

4 P1 R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 6.360 TO 8.187 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	1.001E-10	1.225E-10	1.561E-10	1.773E-10	1.883E-10	1.917E-10
-9.89401E-01	1.001E-10	1.224E-10	1.560E-10	1.772E-10	1.883E-10	1.917E-10
-9.44575E-01	9.937E-11	1.216E-10	1.552E-10	1.767E-10	1.881E-10	1.916E-10
-8.65631E-01	9.756E-11	1.195E-10	1.535E-10	1.758E-10	1.880E-10	1.926E-10
-7.55044E-01	9.842E-11	1.207E-10	1.557E-10	1.791E-10	1.923E-10	1.975E-10
-6.17876E-01	1.025E-10	1.259E-10	1.627E-10	1.874E-10	2.015E-10	2.066E-10
-4.58017E-01	1.110E-10	1.363E-10	1.760E-10	2.025E-10	2.173E-10	2.227E-10
-2.81605E-01	1.241E-10	1.523E-10	1.960E-10	2.247E-10	2.401E-10	2.456E-10
-9.50125E-02	1.411E-10	1.732E-10	2.217E-10	2.529E-10	2.691E-10	2.747E-10
-9.50125E-02	1.644E-10	2.419E-10	2.690E-10	2.764E-10	2.935E-10	3.120E-10
-2.81605E-01	2.007E-10	2.209E-10	2.779E-10	3.343E-10	3.548E-10	3.498E-10
4.58017E-01	2.545E-10	2.979E-10	3.361E-10	3.744E-10	3.971E-10	4.130E-10
6.17876E-01	3.320E-10	3.551E-10	4.332E-10	4.809E-10	5.084E-10	5.080E-10
7.55044E-01	6.874E-10	5.978E-10	6.006E-10	6.539E-10	6.843E-10	6.955E-10
8.65631E-01	1.660E-09	1.056E-09	1.024E-09	1.075E-09	1.096E-09	1.073E-09
9.44575E-01	4.033E-09	3.726E-09	2.829E-09	2.457E-09	2.249E-09	2.083E-09
9.89401E-01	2.079E-08	2.099E-08	1.934E-08	1.665E-08	1.395E-08	1.159E-08
TOTAL	8.379E-09	8.209E-09	8.021E-09	7.815E-09	7.489E-09	7.083E-09

COSINE	RANGE (METERS)			
	500.0	600.0	900.0	1200.0
-1.00000E-00	1.610E-10	1.352E-10	6.625E-11	2.720E-11
-9.89401E-01	1.612E-10	1.354E-10	6.638E-11	2.727E-11
-9.44575E-01	1.619E-10	1.362E-10	6.700E-11	2.756E-11
-8.65631E-01	1.642E-10	1.385E-10	6.833E-11	2.817E-11
-7.55044E-01	1.689E-10	1.427E-10	7.061E-11	2.915E-11
-6.17876E-01	1.773E-10	1.498E-10	7.418E-11	3.064E-11
-4.58017E-01	1.903E-10	1.605E-10	7.931E-11	3.272E-11
-2.81605E-01	2.030E-10	1.752E-10	8.620E-11	3.549E-11
-9.50125E-02	2.310E-10	1.940E-10	9.502E-11	3.904E-11
9.50125E-02	2.589E-10	2.171E-10	1.061E-10	4.356E-11
2.81605E-01	2.943E-10	2.468E-10	1.206E-10	4.947E-11
4.58017E-01	3.441E-10	2.885E-10	1.408E-10	5.763E-11
6.17876E-01	4.238E-10	3.544E-10	1.711E-10	6.964E-11
7.55044E-01	5.646E-10	4.676E-10	2.211E-10	8.831E-11
8.65631E-01	8.311E-10	6.758E-10	3.059E-10	1.185E-10
9.44575E-01	1.416E-09	1.109E-09	4.641E-10	1.705E-10
9.89401E-01	5.309E-09	3.570E-09	1.078E-09	3.234E-10
TOTAL	5.013E-09	4.009E-09	1.797E-09	7.031E-10

COSINE	RANGE (METERS)			
	1500.0	1800.0	1800.0	1800.0
-1.00000E-00	1.001E-11	1.003E-11	3.413E-11	3.422E-11
-9.89401E-01	1.015E-11	1.015E-11	3.464E-11	3.464E-11
-9.44575E-01	1.039E-11	1.039E-11	3.547E-11	3.547E-11
-8.65631E-01	1.076E-11	1.076E-11	3.677E-11	3.677E-11
-7.55044E-01	1.131E-11	1.131E-11	3.866E-11	3.866E-11
-6.17876E-01	1.207E-11	1.207E-11	4.125E-11	4.125E-11
-4.58017E-01	1.308E-11	1.308E-11	4.467E-11	4.467E-11
-2.81605E-01	1.437E-11	1.437E-11	4.904E-11	4.904E-11
-9.50125E-02	1.602E-11	1.602E-11	5.464E-11	5.464E-11
2.81605E-01	1.818E-11	1.818E-11	6.196E-11	6.196E-11
4.58017E-01	2.114E-11	2.114E-11	7.188E-11	7.188E-11
6.17876E-01	2.540E-11	2.540E-11	8.595E-11	8.595E-11
7.55044E-01	3.179E-11	3.179E-11	1.066E-11	1.066E-11
8.65631E-01	4.171E-11	4.171E-11	1.375E-11	1.375E-11
9.44575E-01	5.782E-11	5.782E-11	1.855E-11	1.855E-11
9.89401E-01	9.606E-11	9.606E-11	2.818E-11	2.818E-11
TOTAL	2.510E-10	2.510E-10	8.388E-11	8.388E-11

6.360 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.C	100.0	150.0	200.0	400.0
-1.00000E-00	6.303E-12	7.072E-12	7.927E-12	8.190E-12	6.655E-12
-9.89401E-01	6.340E-12	7.120E-12	7.994E-12	8.275E-12	6.771E-12
-9.44575E-01	6.483E-12	7.302E-12	8.249E-12	8.591E-12	7.190E-12
-8.65631E-01	6.755E-12	7.638E-12	8.698E-12	9.130E-12	7.836E-12
-7.55044E-01	7.145E-12	8.107E-12	9.286E-12	9.794E-12	8.504E-12
-6.17876E-01	7.666E-12	8.718E-12	1.001E-11	1.057E-11	9.152E-12
-4.58017E-01	8.356E-12	9.519E-12	1.094E-11	1.154E-11	9.904E-12
-2.81605E-01	9.281E-12	1.060E-11	1.219E-11	1.287E-11	1.101E-11
-9.50125E-02	1.054E-11	1.207E-11	1.394E-11	1.476E-11	1.276E-11
9.50125E-02	1.228E-11	1.822E-11	1.613E-11	1.756E-11	1.717E-11
2.81605E-01	1.861E-11	1.682E-11	1.981E-11	2.114E-11	2.115E-11
4.58017E-01	1.995E-11	2.158E-11	2.468E-11	2.689E-11	2.686E-11
6.17876E-01	2.062E-11	2.951E-11	3.435E-11	3.530E-11	3.587E-11
7.55044E-01	2.769E-11	3.772E-11	4.488E-11	5.028E-11	5.143E-11
8.65631E-01	4.448E-11	4.907E-11	7.241E-11	7.903E-11	8.209E-11
9.44575E-01	7.016E-11	9.190E-11	1.173E-10	1.395E-10	1.534E-10
9.89401E-01	1.049E-10	1.580E-10	2.433E-10	3.020E-10	3.639E-10
TOTAL	2.213E-10	2.733E-10	3.350E-10	3.721E-10	3.888E-10

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	5.476E-12	4.368E-12	1.981E-12	8.135E-13	1.179E-13
-9.89401E-01	5.590E-12	4.474E-12	2.053E-12	8.579E-13	1.295E-13
-9.44575E-01	5.998E-12	4.856E-12	2.296E-12	9.844E-13	1.636E-13
-8.65631E-01	6.607E-12	5.395E-12	2.626E-12	1.169E-12	2.054E-13
-7.55044E-01	7.193E-12	5.889E-12	2.885E-12	1.292E-12	2.309E-13
-6.17876E-01	7.715E-12	6.291E-12	3.043E-12	1.337E-12	2.287E-13
-4.58017E-01	8.301E-12	6.729E-12	3.192E-12	1.373E-12	2.196E-13
-2.81605E-01	9.214E-12	7.454E-12	3.516E-12	1.510E-12	2.470E-13
-9.50125E-02	1.072E-11	8.711E-12	4.176E-12	1.827E-12	3.103E-13
9.50125E-02	1.300E-11	1.064E-11	5.221E-12	2.340E-12	4.183E-13
2.81605E-01	1.622E-11	1.336E-11	6.644E-12	3.011E-12	5.456E-13
4.58017E-01	2.083E-11	1.721E-11	8.590E-12	3.887E-12	6.919E-13
6.17876E-01	2.817E-11	2.336E-11	1.176E-11	5.345E-12	9.518E-13
7.55044E-01	4.145E-11	3.476E-11	1.802E-11	8.441E-12	1.612E-12
8.65631E-01	6.846E-11	5.841E-11	3.182E-11	1.565E-11	3.333E-12
9.44575E-01	1.330E-10	1.153E-10	6.579E-11	3.379E-11	7.814E-12
9.89401E-01	3.466E-10	3.083E-10	1.849E-10	9.827E-11	2.386E-11
TOTAL	3.195E-10	2.706E-10	1.448E-10	7.021E-11	1.463E-11

## 6.360 TO 8.187 MEV NEUTRON SOURCE

PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 EXGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	6.297E-10	7.152E-10	8.220E-10	8.770E-10	8.582E-10
-9.89401E-01	6.333E-10	7.198E-10	8.285E-10	8.788E-10	8.688E-10
-9.44575E-01	6.473E-10	7.375E-10	8.533E-10	9.097E-10	9.074E-10
-8.65631E-01	6.737E-10	7.703E-10	8.973E-10	9.626E-10	9.817E-10
-7.55044E-01	7.117E-10	8.160E-10	9.549E-10	1.028E-09	1.051E-09
-6.17876E-01	7.624E-10	8.757E-10	1.026E-09	1.105E-09	1.129E-09
-4.58017E-01	8.297E-10	9.540E-10	1.117E-09	1.201E-09	1.244E-09
-2.81605E-01	9.198E-10	1.059E-09	1.240E-09	1.332E-09	1.356E-09
-9.50125E-02	1.042E-09	1.203E-09	1.411E-09	1.518E-09	1.547E-09
9.50125E-02	1.212E-09	1.800E-09	1.623E-09	1.794E-09	1.834E-09
2.81605E-01	1.825E-09	2.666E-09	1.986E-09	2.141E-09	2.196E-09
6.17876E-01	1.872E-09	2.115E-09	2.456E-09	2.705E-09	2.782E-09
7.55044E-01	2.023E-09	2.908E-09	3.408E-09	3.522E-09	3.634E-09
8.65631E-01	2.651E-09	3.699E-09	4.407E-09	4.981E-09	5.150E-09
9.44575E-01	4.341E-09	4.799E-09	7.111E-09	7.771E-09	8.070E-09
9.89401E-01	6.838E-09	8.963E-09	1.146E-08	1.366E-08	1.472E-08
TOTAL	1.021E-08	1.539E-08	2.372E-08	2.947E-08	3.334E-08
	2.173E-08	2.693E-08	3.327E-08	3.723E-08	3.906E-08
					3.719E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	6.573E-11	5.402E-10	2.633E-10	1.152E-10	4.765E-11
-9.89401E-01	6.685E-11	5.506E-10	2.704E-10	1.195E-10	4.992E-11
-9.44575E-01	7.086E-11	5.876E-10	2.943E-10	1.319E-10	5.616E-11
-8.65631E-01	7.689E-11	6.417E-10	3.272E-10	1.502E-10	6.572E-11
-7.55044E-01	8.281E-11	6.918E-10	3.536E-10	1.628E-10	7.092E-11
-6.17876E-01	8.821E-11	7.341E-10	3.710E-10	1.683E-10	7.249E-11
-4.58017E-01	9.434E-11	7.807E-10	3.881E-10	1.731E-10	7.281E-11
-2.81605E-01	1.037E-09	8.559E-10	4.226E-10	1.879E-10	7.928E-11
-9.50125E-02	1.189E-09	9.832E-10	4.899E-10	2.203E-10	9.405E-11
9.50125E-02	1.416E-09	1.177E-09	5.949E-10	2.717E-10	1.180E-10
2.81605E-01	1.735E-09	1.466E-09	7.369E-10	3.388E-10	1.478E-10
6.17876E-01	2.190E-09	1.827E-09	9.301E-10	4.260E-10	1.645E-10
7.55044E-01	2.909E-09	2.431E-09	1.242E-09	5.695E-10	2.465E-10
8.65631E-01	4.204E-09	3.542E-09	1.852E-09	8.712E-10	3.880E-10
9.44575E-01	6.828E-09	5.839E-09	3.191E-09	1.571E-09	7.348E-10
9.89401E-01	1.310E-08	1.137E-08	6.491E-09	3.333E-09	1.625E-09
TOTAL	3.392E-08	3.020E-08	1.813E-08	9.645E-09	4.836E-09
	3.296E-08	2.807E-08	1.516E-08	7.380E-09	3.415E-09
					1.539E-09



## 6.360 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-00	7.285E-10	8.885E-10	1.156E-09	1.356E-09	1.487E-09	1.559E-09
-9.89401E-01	7.320E-10	8.931E-10	1.163E-09	1.364E-09	1.497E-09	1.570E-09
-9.44575E-01	7.457E-10	9.107E-10	1.189E-09	1.396E-09	1.535E-09	1.612E-09
-8.65631E-01	7.716E-10	9.435E-10	1.234E-09	1.452E-09	1.598E-09	1.680E-09
-7.55044E-01	8.088E-10	9.894E-10	1.294E-09	1.523E-09	1.675E-09	1.761E-09
-6.17876E-01	8.586E-10	1.049E-09	1.369E-09	1.608E-09	1.765E-09	1.852E-09
-4.58017E-01	9.245E-10	1.128E-09	1.465E-09	1.715E-09	1.876E-09	1.963E-09
-2.81605E-01	1.012E-09	1.233E-09	1.594E-09	1.858E-09	2.027E-09	2.115E-09
-9.50125E-02	1.131E-09	1.376E-09	1.771E-09	2.057E-09	2.239E-09	2.331E-09
9.50125E-02	1.295E-09	1.546E-09	1.994E-09	2.342E-09	2.542E-09	2.634E-09
2.81605E-01	1.878E-09	1.827E-09	2.346E-09	2.708E-09	2.934E-09	3.054E-09
4.58017E-01	1.922E-09	2.271E-09	2.821E-09	3.272E-09	3.530E-09	3.642E-09
6.17876E-01	2.073E-09	3.010E-09	3.725E-09	4.087E-09	4.394E-09	4.537E-09
7.55044E-01	2.669E-09	3.768E-09	4.718E-09	5.500E-09	5.877E-09	6.036E-09
8.65631E-01	4.255E-09	4.815E-09	7.259E-09	8.169E-09	8.685E-09	8.908E-09
9.44575E-01	6.592E-09	8.717E-09	1.136E-08	1.372E-08	1.497E-08	1.547E-08
9.89401E-01	9.743E-09	1.472E-08	2.282E-08	2.849E-08	3.236E-08	3.461E-08
TOTAL	2.237E-08	2.849E-08	3.713E-08	4.339E-08	4.721E-08	4.909E-08

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-00	1.442E-09	1.260E-09	6.994E-10	3.370E-10	1.523E-10	6.671E-11
-9.89401E-01	1.454E-09	1.271E-09	7.071E-10	3.415E-10	1.546E-10	6.785E-11
-9.44575E-01	1.497E-09	1.312E-09	7.329E-10	3.548E-10	1.612E-10	7.133E-11
-8.65631E-01	1.565E-09	1.373E-09	7.703E-10	3.753E-10	1.717E-10	7.588E-11
-7.55044E-01	1.638E-09	1.436E-09	8.049E-10	3.921E-10	1.789E-10	7.939E-11
-6.17876E-01	1.713E-09	1.498E-09	8.347E-10	4.040E-10	1.835E-10	8.082E-11
-4.58017E-01	1.801E-09	1.570E-09	8.679E-10	4.171E-10	1.878E-10	8.205E-11
-2.81605E-01	1.926E-09	1.676E-09	9.213E-10	4.415E-10	1.987E-10	8.695E-11
-9.50125E-02	2.114E-09	1.837E-09	1.009E-09	4.842E-10	2.182E-10	9.545E-11
9.50125E-02	2.381E-09	2.068E-09	1.137E-09	5.466E-10	2.470E-10	1.084E-10
2.81605E-01	2.744E-09	2.379E-09	1.304E-09	6.259E-10	2.823E-10	1.235E-10
4.58017E-01	3.244E-09	2.802E-09	1.524E-09	7.263E-10	3.251E-10	1.409E-10
6.17876E-01	4.000E-09	3.444E-09	1.859E-09	8.816E-10	3.927E-10	1.691E-10
7.55044E-01	5.304E-09	4.567E-09	2.478E-09	1.187E-09	5.353E-10	2.337E-10
8.65631E-01	7.855E-09	6.803E-09	3.775E-09	1.864E-09	8.696E-10	3.939E-10
9.44575E-01	1.380E-08	1.204E-08	6.900E-09	3.526E-09	1.707E-09	8.026E-10
9.89401E-01	3.322E-08	2.958E-08	1.771E-08	9.369E-09	4.673E-09	2.255E-09
TOTAL	4.441E-08	3.867E-08	2.160E-08	1.062E-08	4.928E-09	2.220E-09

## 6.360 TO 8.187 MEV NEUTRON SOURCE

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E+00	6.447E-10	7.348E-10	8.513E-10	9.094E-10	9.249E-10
-9.89401E-01	6.484E-10	7.395E-10	8.580E-10	9.179E-10	9.227E-10
-9.44575E-01	6.626E-10	7.575E-10	8.832E-10	9.493E-10	9.620E-10
-8.65631E-01	6.895E-10	7.908E-10	9.279E-10	1.003E-09	1.026E-09
-7.55044E-01	7.281E-10	8.373E-10	9.864E-10	1.069E-09	1.091E-09
-6.17876E-01	7.796E-10	8.979E-10	1.059E-09	1.147E-09	1.174E-09
-4.58017E-01	8.480E-10	9.774E-10	1.151E-09	1.245E-09	1.266E-09
-2.81605E-01	9.396E-10	1.084E-09	1.276E-09	1.377E-09	1.395E-09
-9.50125E-02	1.064E-09	1.230E-09	1.449E-09	1.566E-09	1.587E-09
9.50125E-02	1.237E-09	1.837E-09	1.862E-09	1.846E-09	1.863E-09
2.81605E-01	1.859E-09	1.701E-09	2.034E-09	2.196E-09	2.259E-09
4.58017E-01	1.908E-09	2.154E-09	2.507E-09	2.776E-09	2.854E-09
6.17876E-01	2.061E-09	2.965E-09	3.799E-09	3.597E-09	3.716E-09
7.55044E-01	2.699E-09	3.768E-09	4.878E-09	5.079E-09	5.256E-09
8.65631E-01	4.419E-09	4.885E-09	7.242E-09	7.913E-09	8.271E-09
9.44575E-01	6.963E-09	9.125E-09	1.167E-08	1.390E-08	1.499E-08
9.89401E-01	1.040E-08	1.568E-08	2.416E-08	3.001E-08	3.398E-08
TOTAL	2.215E-08	2.747E-08	3.400E-08	3.812E-08	4.007E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E+00	7.176E-10	5.958E-10	2.968E-10	1.318E-10	5.530E-11
-9.89401E-01	7.290E-10	6.063E-10	3.040E-10	1.362E-10	5.763E-11
-9.44575E-01	7.699E-10	6.441E-10	3.284E-10	1.489E-10	6.401E-11
-8.65631E-01	8.313E-10	6.992E-10	3.619E-10	1.676E-10	7.376E-11
-7.55044E-01	8.914E-10	7.500E-10	3.887E-10	1.804E-10	7.903E-11
-6.17876E-01	9.459E-10	7.926E-10	4.462E-10	1.858E-10	8.056E-11
-4.58017E-01	1.007E-09	8.394E-10	4.232E-10	1.905E-10	8.077E-11
-2.81605E-01	1.102E-09	9.150E-10	4.577E-10	2.053E-10	8.723E-11
-9.50125E-02	1.255E-09	1.043E-09	5.255E-10	2.379E-10	1.021E-10
9.50125E-02	1.484E-09	1.239E-09	6.315E-10	2.899E-10	1.263E-10
2.81605E-01	1.807E-09	1.511E-09	7.747E-10	3.575E-10	1.563E-10
4.58017E-01	2.266E-09	1.895E-09	9.693E-10	4.452E-10	1.932E-10
6.17876E-01	2.993E-09	2.505E-09	1.283E-09	5.896E-10	2.555E-10
7.55044E-01	4.303E-09	3.629E-09	1.900E-09	8.944E-10	3.984E-10
8.65631E-01	6.965E-09	5.958E-09	3.258E-09	1.604E-09	7.503E-10
9.44575E-01	1.334E-08	1.158E-08	6.615E-09	3.397E-09	1.656E-09
9.89401E-01	3.457E-08	3.078E-08	1.850E-08	9.843E-09	4.938E-09
TOTAL	3.405E-08	2.905E-08	1.574E-08	7.669E-09	3.550E-09

3.833E-08

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	3.548E-06	1.160E-05	4.010E-05	8.563E-05	1.474E-04	2.389E-04	3.936E-04	6.431E-04	1.002E-03
4.07E 00--4.97E 00	5.433E-03	5.498E-03	5.746E-03	6.188E-03	6.756E-03	7.412E-03	8.146E-03	8.975E-03	9.953E-03
3.01E 00--4.07E 00	1.092E-02	1.088E-02	1.071E-02	1.043E-02	1.013E-02	9.876E-03	9.731E-03	9.750E-03	1.001E-02
2.46E 00--3.01E 00	6.536E-03	6.542E-03	6.567E-03	6.519E-03	6.708E-03	6.848E-03	7.058E-03	7.367E-03	7.810E-03
2.35E 00--2.46E 00	8.164E-03	8.157E-03	8.132E-03	8.095E-03	8.069E-03	8.082E-03	8.174E-03	8.367E-03	8.761E-03
1.81E 00--2.35E 00	3.815E-03	3.818E-03	3.831E-03	3.862E-03	3.918E-03	4.009E-03	4.142E-03	4.327E-03	4.569E-03
1.11E 00--1.81E 00	2.269E-03	2.273E-03	2.288E-03	2.319E-03	2.365E-03	2.428E-03	2.508E-03	2.609E-03	2.732E-03
5.50E-01--1.11E 00	2.603E-03	2.606E-03	2.620E-03	2.648E-03	2.688E-03	2.745E-03	2.812E-03	2.897E-03	3.000E-03
1.11E-01--5.50E-01	3.304E-03	3.307E-03	3.318E-03	3.341E-03	3.373E-03	3.415E-03	3.467E-03	3.530E-03	3.602E-03
3.35E-02--1.11E-01	1.824E-02	1.825E-02	1.828E-02	1.833E-02	1.841E-02	1.851E-02	1.862E-02	1.876E-02	1.891E-02
5.83E-04--3.35E-02	1.496E-02	1.496E-02	1.497E-02	1.500E-02	1.504E-02	1.510E-02	1.516E-02	1.522E-02	1.530E-02
1.01E-04--5.83E-04	8.705E-01	8.707E-01	8.714E-01	8.728E-01	8.747E-01	8.771E-01	8.799E-01	8.831E-01	8.865E-01
2.90E-05--1.01E-04	3.689E 00	3.689E 00	3.692E 00	3.697E 00	3.704E 00	3.713E 00	3.724E 00	3.735E 00	3.748E 00
1.07E-05--2.90E-05	1.062E 01	1.063E 01	1.068E 01	1.065E 01	1.067E 01	1.069E 01	1.072E 01	1.075E 01	1.078E 01
3.06E-06--1.07E-05	2.806E 01	2.806E 01	2.808E 01	2.811E 01	2.816E 01	2.822E 01	2.829E 01	2.836E 01	2.844E 01
1.12E-06--3.06E-06	7.436E 01	7.437E 01	7.442E 01	7.450E 01	7.462E 01	7.476E 01	7.493E 01	7.512E 01	7.532E 01
4.14E-07--1.12E-06	1.612E 02	1.613E 02	1.614E 02	1.615E 02	1.618E 02	1.621E 02	1.624E 02	1.628E 02	1.632E 02
0.0	2.318E 02	2.318E 02	2.320E 02	2.323E 02	2.326E 02	2.331E 02	2.335E 02	2.340E 02	2.345E 02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	1.415E-03	1.844E-03	5.019E-03	1.082E-02	3.195E-02	8.723E-02	2.282E-01	1.288E 00	4.082E-01
4.07E 00--4.97E 00	1.155E-02	1.242E-02	1.378E-02	1.545E-02	2.949E-02	8.284E-02	3.447E-01	1.300E 00	5.391E-01
3.01E 00--4.07E 00	1.097E-02	1.137E-02	1.190E-02	1.250E-02	1.913E-02	3.135E-02	4.965E-02	6.628E-02	1.913E-01
2.46E 00--3.01E 00	8.744E-03	9.070E-03	9.937E-03	1.301E-02	1.577E-02	1.747E-02	2.121E-02	2.896E-02	1.242E-01
2.35E 00--2.46E 00	1.348E-02	1.503E-02	1.042E-02	1.365E-02	1.642E-02	1.781E-02	2.122E-02	2.920E-02	1.397E-01
1.83E 00--2.35E 00	4.725E-03	4.856E-03	5.602E-03	6.914E-03	7.600E-03	7.401E-03	8.221E-03	1.222E-02	6.542E-02
1.11E 00--1.83E 00	2.910E-03	3.140E-03	3.325E-03	3.480E-03	3.793E-03	4.343E-03	4.993E-03	5.677E-03	3.808E-02
5.50E-01--1.11E 00	3.145E-03	3.326E-03	3.474E-03	3.607E-03	3.867E-03	4.305E-03	4.816E-03	5.351E-03	4.066E-02
1.11E-01--5.50E-01	3.619E-03	3.604E-03	3.622E-03	4.233E-03	4.359E-03	4.126E-03	4.226E-03	5.321E-03	4.666E-02
3.35E-02--1.11E-01	1.912E-02	1.951E-02	1.961E-02	1.919E-02	1.941E-02	2.040E-02	2.014E-02	1.971E-02	2.395E-01
5.83E-04--3.35E-02	1.538E-02	1.546E-02	1.553E-02	1.560E-02	1.567E-02	1.572E-02	1.576E-02	1.578E-02	1.929E-01
1.01E-04--5.83E-04	8.900E-01	8.936E-01	8.969E-01	9.000E-01	9.027E-01	9.050E-01	9.066E-01	9.073E-01	1.117E 01
2.90E-05--1.01E-04	3.761E 00	3.774E 00	3.786E 00	3.797E 00	3.806E 00	3.814E 00	3.820E 00	3.822E 00	4.719E 01
1.07E-05--2.90E-05	1.082E 01	1.085E 01	1.088E 01	1.091E 01	1.094E 01	1.095E 01	1.097E 01	1.098E 01	1.357E 02
3.06E-06--1.07E-05	2.853E 01	2.861E 01	2.869E 01	2.876E 01	2.882E 01	2.887E 01	2.890E 01	2.892E 01	3.580E 02
1.12E-06--3.06E-06	7.553E 01	7.573E 01	7.592E 01	7.610E 01	7.625E 01	7.637E 01	7.646E 01	7.650E 01	9.479E 02
4.14E-07--1.12E-06	1.636E 02	1.641E 02	1.644E 02	1.648E 02	1.651E 02	1.654E 02	1.655E 02	1.656E 02	2.054E 03
0.0	2.350E 02	2.355E 02	2.360E 02	2.365E 02	2.369E 02	2.372E 02	2.374E 02	2.374E 02	2.950E 03

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.5894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	3.003E-05	4.066E-05	7.795E-05	1.359E-04	2.072E-04	3.163E-04	5.103E-04	8.338E-04	1.301E-03
4.07E 00--4.97E 00	5.864E-03	5.941E-03	6.238E-03	6.757E-03	7.410E-03	8.150E-03	8.962E-03	9.872E-03	1.095E-02
3.01E 00--4.07E 00	1.238E-02	1.238E-02	1.213E-02	1.183E-02	1.147E-02	1.120E-02	1.108E-02	1.117E-02	1.158E-02
2.46E 00--3.01E 00	1.084E-02	1.085E-02	1.088E-02	1.094E-02	1.105E-02	1.126E-02	1.161E-02	1.299E-02	1.299E-02
2.35E 00--2.46E 00	1.435E-02	1.433E-02	1.427E-02	1.416E-02	1.408E-02	1.410E-02	1.431E-02	1.481E-02	1.572E-02
1.82E 00--2.35E 00	7.978E-03	7.986E-03	8.023E-03	8.109E-03	8.263E-03	8.512E-03	8.881E-03	9.395E-03	1.008E-02
1.11E 00--1.82E 00	5.716E-03	5.716E-03	5.764E-03	5.859E-03	6.001E-03	6.196E-03	6.448E-03	6.767E-03	7.158E-03
5.50E-01--1.11E 00	7.340E-03	7.340E-03	7.411E-03	7.513E-03	7.657E-03	7.853E-03	8.102E-03	8.409E-03	8.779E-03
1.11E-01--5.50E-01	1.042E-02	1.043E-02	1.048E-02	1.057E-02	1.071E-02	1.088E-02	1.109E-02	1.134E-02	1.163E-02
3.35E-02--1.11E-01	6.322E-02	6.326E-02	6.341E-02	6.370E-02	6.410E-02	6.462E-02	6.524E-02	6.596E-02	6.675E-02
5.83E-04--3.35E-02	5.535E-02	5.537E-02	5.549E-02	5.573E-02	5.608E-02	5.655E-02	5.714E-02	5.784E-02	5.865E-02
1.01E-04--5.83E-04	3.155E 00	3.156E 00	3.160E 00	3.169E 00	3.182E 00	3.197E 00	3.216E 00	3.237E 00	3.259E 00
2.90E-05--1.01E-04	1.348E 01	1.348E 01	1.350E 01	1.354E 01	1.358E 01	1.364E 01	1.371E 01	1.379E 01	1.388E 01
1.07E-05--2.90E-05	3.903E 01	3.904E 01	3.905E 01	3.918E 01	3.931E 01	3.948E 01	3.967E 01	3.989E 01	4.012E 01
3.06E-06--1.07E-05	1.036E 02	1.036E 02	1.037E 02	1.040E 02	1.043E 02	1.047E 02	1.052E 02	1.057E 02	1.063E 02
1.12E-06--3.06E-06	2.755E 02	2.756E 02	2.759E 02	2.765E 02	2.773E 02	2.783E 02	2.795E 02	2.809E 02	2.823E 02
4.14E-07--1.12E-06	5.992E 02	5.993E 02	6.003E 02	6.012E 02	6.029E 02	6.050E 02	6.075E 02	6.103E 02	6.133E 02
0.0	8.643E 02	8.645E 02	8.656E 02	8.674E 02	8.699E 02	8.727E 02	8.759E 02	8.793E 02	8.829E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	2.446E-03	2.455E-03	4.333E-03	6.653E-03	1.294E-02	3.323E-02	1.294E-01	1.100E 00	2.883E-01
4.07E 00--4.97E 00	9.994E-03	1.815E-02	1.642E-02	2.547E-02	3.836E-02	6.233E-02	1.610E-01	1.150E 00	4.541E-01
3.01E 00--4.07E 00	1.040E-02	1.552E-02	1.543E-02	2.460E-02	3.719E-02	6.233E-02	6.267E-02	1.181E-01	2.344E-01
2.46E 00--3.01E 00	1.252E-02	1.422E-02	2.352E-02	1.893E-02	3.021E-02	3.548E-02	5.079E-02	7.024E-02	2.244E-01
2.35E 00--2.46E 00	1.526E-02	1.929E-02	2.493E-02	3.307E-02	3.648E-02	3.991E-02	5.571E-02	7.547E-02	2.673E-01
1.82E 00--2.35E 00	8.328E-03	1.370E-02	1.331E-02	1.472E-02	1.883E-02	1.979E-02	2.543E-02	2.949E-02	1.512E-01
1.11E 00--1.82E 00	8.150E-03	7.934E-03	8.922E-03	9.830E-03	1.049E-02	1.200E-02	1.329E-02	1.555E-02	1.012E-01
5.50E-01--1.11E 00	9.579E-03	9.513E-03	1.034E-02	1.108E-02	1.164E-02	1.283E-02	1.385E-02	1.565E-02	1.193E-01
1.11E-01--5.50E-01	1.071E-02	1.256E-02	1.267E-02	1.283E-02	1.400E-02	1.374E-02	1.474E-02	1.506E-02	1.501E-01
3.35E-02--1.11E-01	6.864E-02	6.825E-02	6.877E-02	7.093E-02	7.038E-02	7.195E-02	7.218E-02	7.256E-02	7.477E-01
5.83E-04--3.35E-02	5.589E-02	5.637E-02	5.689E-02	5.729E-02	5.769E-02	5.802E-02	5.827E-02	5.841E-02	7.003E-01
1.01E-04--5.83E-04	3.282E 00	3.306E 00	3.329E 00	3.369E 00	3.369E 00	3.384E 00	3.396E 00	3.402E 00	4.113E 01
2.90E-05--1.01E-04	1.397E 01	1.406E 01	1.414E 01	1.422E 01	1.429E 01	1.435E 01	1.439E 01	1.441E 01	1.751E 02
1.07E-05--2.90E-05	4.036E 01	4.060E 01	4.086E 01	4.105E 01	4.124E 01	4.139E 01	4.150E 01	4.156E 01	5.059E 02
3.06E-06--1.07E-05	1.069E 02	1.075E 02	1.081E 02	1.086E 02	1.090E 02	1.094E 02	1.097E 02	1.098E 02	1.340E 03
1.12E-06--3.06E-06	2.838E 02	2.853E 02	2.867E 02	2.880E 02	2.892E 02	2.901E 02	2.907E 02	2.911E 02	3.558E 03
4.14E-07--1.12E-06	6.163E 02	6.194E 02	6.223E 02	6.250E 02	6.273E 02	6.292E 02	6.306E 02	6.313E 02	7.728E 03
0.0	8.868E 02	8.907E 02	8.946E 02	8.982E 02	9.012E 02	9.034E 02	9.048E 02	9.055E 02	1.112E 04

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	4.721E-05	5.771E-05	9.491E-05	1.530E-04	2.254E-04	3.376E-04	5.370E-04	8.678E-04	1.343E-03
4.07E 00---4.97E 00	5.592E-03	5.666E-03	5.949E-03	6.440E-03	7.056E-03	7.755E-03	8.521E-03	9.382E-03	1.041E-02
3.01E 00---4.07E 00	1.184E-02	1.179E-02	1.161E-02	1.131E-02	1.101E-02	1.078E-02	1.070E-02	1.084E-02	1.131E-02
2.46E 00---3.01E 00	1.180E-02	1.181E-02	1.184E-02	1.190E-02	1.202E-02	1.225E-02	1.263E-02	1.326E-02	1.425E-02
2.35E 00---2.46E 00	1.594E-02	1.592E-02	1.589E-02	1.575E-02	1.569E-02	1.576E-02	1.607E-02	1.676E-02	1.799E-02
1.83E 00---2.35E 00	9.692E-03	9.704E-03	9.757E-03	9.878E-03	1.009E-02	1.044E-02	1.095E-02	1.165E-02	1.260E-02
1.11E 00---1.83E 00	7.633E-03	7.650E-03	7.721E-03	7.359E-03	8.067E-03	8.353E-03	8.726E-03	9.199E-03	9.784E-03
5.50E-01---1.11E 00	1.050E-02	1.052E-02	1.060E-02	1.076E-02	1.099E-02	1.131E-02	1.171E-02	1.221E-02	1.280E-02
1.11E-01---5.50E-01	1.581E-02	1.583E-02	1.591E-02	1.607E-02	1.630E-02	1.660E-02	1.697E-02	1.740E-02	1.791E-02
3.35E-02---1.11E-01	1.004E-01	1.005E-01	1.008E-01	1.013E-01	1.021E-01	1.033E-01	1.042E-01	1.056E-01	1.070E-01
5.83E-04---3.35E-02	8.601E-02	8.606E-02	8.624E-02	8.658E-02	8.706E-02	8.766E-02	8.838E-02	8.920E-02	9.009E-02
1.01E-04---5.83E-04	5.135E 00	5.138E 00	5.147E 00	5.165E 00	5.190E 00	5.222E 00	5.259E 00	5.302E 00	5.348E 00
2.90E-05---1.01E-04	2.207E 01	2.208E 01	2.211E 01	2.218E 01	2.228E 01	2.241E 01	2.255E 01	2.272E 01	2.289E 01
1.07E-05---2.90E-05	6.413E 01	6.416E 01	6.426E 01	6.446E 01	6.473E 01	6.507E 01	6.547E 01	6.593E 01	6.642E 01
3.06E-06---1.07E-05	1.709E 02	1.710E 02	1.712E 02	1.717E 02	1.724E 02	1.733E 02	1.743E 02	1.754E 02	1.766E 02
1.12E-06---3.06E-06	4.558E 02	4.560E 02	4.566E 02	4.579E 02	4.596E 02	4.618E 02	4.643E 02	4.672E 02	4.703E 02
4.14E-07---1.12E-06	9.936E 02	9.940E 02	9.956E 02	9.980E 02	1.002E 03	1.006E 03	1.011E 03	1.017E 03	1.024E 03
0.0 ---4.14E-07	1.437E 03	1.438E 03	1.440E 03	1.444E 03	1.449E 03	1.455E 03	1.462E 03	1.469E 03	1.477E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	1.670E-03	3.028E-03	3.886E-03	7.075E-03	1.304E-02	2.931E-02	9.676E-02	8.987E-01	2.389E-01
4.07E 00---4.97E 00	1.303E-02	1.268E-02	1.823E-02	2.295E-02	3.741E-02	6.371E-02	1.386E-01	9.149E-01	4.008E-01
3.01E 00---4.07E 00	1.342E-02	1.303E-02	1.780E-02	2.106E-02	3.009E-02	4.297E-02	6.722E-02	1.219E-01	2.353E-01
2.46E 00---3.01E 00	1.665E-02	1.714E-02	2.186E-02	2.537E-02	3.342E-02	4.371E-02	6.087E-02	9.107E-02	2.585E-01
2.35E 00---2.46E 00	2.090E-02	2.184E-02	2.760E-02	3.182E-02	4.136E-02	5.261E-02	7.220E-02	1.020E-01	3.218E-01
1.83E 00---2.35E 00	1.526E-02	1.417E-02	1.851E-02	1.906E-02	2.412E-02	2.711E-02	3.389E-02	4.087E-02	1.964E-01
1.11E 00---1.83E 00	1.020E-02	1.159E-02	1.217E-02	1.376E-02	1.488E-02	1.682E-02	2.154E-02	2.154E-02	1.387E-01
5.50E-01---1.11E 00	1.331E-02	1.451E-02	1.514E-02	1.650E-02	1.750E-02	1.906E-02	2.056E-02	2.278E-02	1.744E-01
1.11E-01---5.50E-01	1.924E-02	1.848E-02	2.022E-02	2.003E-02	2.144E-02	2.161E-02	2.268E-02	2.313E-02	2.332E-01
3.35E-02---1.11E-01	1.079E-01	1.107E-01	1.116E-01	1.137E-01	1.149E-01	1.163E-01	1.172E-01	1.179E-01	1.190E 00
5.83E-04---3.35E-02	9.103E-02	9.199E-02	9.292E-02	9.381E-02	9.460E-02	9.526E-02	9.574E-02	9.602E-02	1.140E 00
1.01E-04---5.83E-04	5.396E 00	5.444E 00	5.491E 00	5.536E 00	5.575E 00	5.607E 00	5.630E 00	5.644E 00	6.758E 01
2.90E-05---1.01E-04	2.308E 01	2.327E 01	2.345E 01	2.362E 01	2.376E 01	2.389E 01	2.397E 01	2.402E 01	2.891E 02
1.07E-05---2.90E-05	6.693E 01	6.745E 01	6.796E 01	6.840E 01	6.881E 01	6.913E 01	6.937E 01	6.951E 01	8.385E 02
3.06E-06---1.07E-05	1.779E 02	1.792E 02	1.806E 02	1.815E 02	1.825E 02	1.833E 02	1.839E 02	1.843E 02	2.229E 03
1.12E-06---3.06E-06	4.735E 02	4.767E 02	4.798E 02	4.827E 02	4.852E 02	4.872E 02	4.886E 02	4.895E 02	5.934E 03
4.14E-07---1.12E-06	1.030E 03	1.037E 03	1.044E 03	1.049E 03	1.055E 03	1.059E 03	1.062E 03	1.063E 03	1.291E 04
0.0 ---4.14E-07	1.485E 03	1.494E 03	1.502E 03	1.510E 03	1.517E 03	1.522E 03	1.525E 03	1.527E 03	1.862E 04

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	6.340E-05	7.205E-05	1.034E-04	1.535E-04	2.189E-04	3.222E-04	5.031E-04	7.977E-04	1.218E-03
4.07E 00--4.97E 00	4.532E-03	4.589E-03	4.812E-03	5.198E-03	5.681E-03	6.229E-03	6.833E-03	7.517E-03	8.343E-03
3.01E 00--4.07E 00	9.522E-03	9.485E-03	9.345E-03	9.128E-03	8.915E-03	8.770E-03	8.756E-03	8.940E-03	9.419E-03
2.46E 00--3.01E 00	1.114E-02	1.114E-02	1.115E-02	1.122E-02	1.134E-02	1.157E-02	1.197E-02	1.264E-02	1.371E-02
2.35E 00--2.46E 00	1.544E-02	1.543E-02	1.539E-02	1.533E-02	1.536E-02	1.555E-02	1.605E-02	1.699E-02	1.856E-02
1.83E 00--2.35E 00	1.082E-02	1.084E-02	1.092E-02	1.109E-02	1.139E-02	1.185E-02	1.252E-02	1.345E-02	1.470E-02
1.11E 00--1.83E 00	9.907E-03	9.932E-03	1.004E-02	1.024E-02	1.054E-02	1.096E-02	1.152E-02	1.222E-02	1.311E-02
5.50E-01--1.11E 00	1.522E-02	1.525E-02	1.599E-02	1.566E-02	1.606E-02	1.680E-02	1.729E-02	1.816E-02	1.920E-02
1.11E-01--5.50E-01	2.541E-02	2.545E-02	2.561E-02	2.591E-02	2.635E-02	2.693E-02	2.763E-02	2.847E-02	2.944E-02
3.35E-02--1.11E-01	1.741E-01	1.742E-01	1.749E-01	1.761E-01	1.777E-01	1.798E-01	1.824E-01	1.853E-01	1.886E-01
5.83E-04--3.35E-02	1.530E-01	1.530E-01	1.534E-01	1.542E-01	1.552E-01	1.566E-01	1.583E-01	1.602E-01	1.622E-01
1.01E-04--5.83E-04	9.288E 00	9.288E 00	9.311E 00	9.354E 00	9.413E 00	9.489E 00	9.579E 00	9.681E 00	9.792E 00
2.90E-05--1.01E-04	4.031E 01	4.033E 01	4.042E 01	4.059E 01	4.083E 01	4.114E 01	4.150E 01	4.190E 01	4.235E 01
1.07E-05--2.90E-05	1.180E 02	1.181E 02	1.183E 02	1.188E 02	1.195E 02	1.203E 02	1.214E 02	1.225E 02	1.238E 02
1.06E-06--1.07E-05	3.170E 02	3.172E 02	3.178E 02	3.191E 02	3.208E 02	3.230E 02	3.256E 02	3.285E 02	3.317E 02
1.12E-06--3.06E-06	8.505E 02	8.509E 02	8.526E 02	8.558E 02	8.602E 02	8.658E 02	8.725E 02	8.800E 02	8.881E 02
4.14E-07--1.12E-06	1.863E 03	1.864E 03	1.868E 03	1.875E 03	1.884E 03	1.896E 03	1.910E 03	1.926E 03	1.943E 03
0.0	2.711E 03	2.712E 03	2.717E 03	2.727E 03	2.740E 03	2.755E 03	2.774E 03	2.794E 03	2.815E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	1.834E-03	2.442E-03	3.779E-03	6.207E-03	1.194E-02	2.505E-02	6.615E-02	5.610E-01	1.643E-01
4.07E 00--4.97E 00	5.127E-03	1.145E-02	1.396E-02	2.001E-02	3.057E-02	5.318E-02	1.074E-01	5.600E-01	2.921E-01
3.01E 00--4.07E 00	1.004E-02	1.225E-02	1.452E-02	1.927E-02	2.582E-02	3.728E-02	5.775E-02	1.050E-01	1.993E-01
2.46E 00--3.01E 00	1.513E-02	1.758E-02	2.127E-02	2.693E-02	3.475E-02	4.759E-02	6.865E-02	1.071E-01	2.636E-01
2.35E 00--2.46E 00	2.076E-02	2.475E-02	2.931E-02	3.716E-02	4.749E-02	6.369E-02	8.937E-02	1.337E-01	3.555E-01
1.83E 00--2.35E 00	1.597E-02	1.877E-02	2.034E-02	2.496E-02	2.916E-02	3.554E-02	4.344E-02	5.440E-02	2.357E-01
1.11E 00--1.83E 00	1.428E-02	1.543E-02	1.713E-02	1.888E-02	2.115E-02	2.358E-02	2.646E-02	2.965E-02	1.889E-01
5.50E-01--1.11E 00	2.051E-02	2.186E-02	2.366E-02	2.547E-02	2.764E-02	2.986E-02	3.229E-02	3.485E-02	2.649E-01
1.11E-01--5.50E-01	3.024E-02	3.191E-02	3.282E-02	3.441E-02	3.547E-02	3.686E-02	3.780E-02	3.869E-02	3.839E-01
3.35E-02--1.11E-01	1.924E-01	1.955E-01	1.995E-01	2.027E-01	2.061E-01	2.086E-01	2.108E-01	2.119E-01	2.403E 00
5.83E-04--3.35E-02	1.644E-01	1.666E-01	1.688E-01	1.709E-01	1.727E-01	1.743E-01	1.754E-01	1.761E-01	2.057E 00
1.01E-04--5.83E-04	9.909E 00	1.003E 01	1.014E 01	1.025E 01	1.035E 01	1.043E 01	1.049E 01	1.052E 01	1.240E 02
2.90E-05--1.01E-04	4.281E 01	4.328E 01	4.374E 01	4.417E 01	4.455E 01	4.488E 01	4.508E 01	4.521E 01	5.359E 02
1.07E-05--2.90E-05	1.251E 02	1.264E 02	1.277E 02	1.289E 02	1.299E 02	1.308E 02	1.314E 02	1.328E 02	1.565E 03
3.06E-06--1.07E-05	3.350E 02	3.383E 02	3.416E 02	3.446E 02	3.472E 02	3.496E 02	3.510E 02	3.519E 02	4.194E 03
1.12E-06--3.06E-06	8.966E 02	9.051E 02	9.133E 02	9.210E 02	9.277E 02	9.332E 02	9.372E 02	9.394E 02	1.123E 04
4.14E-07--1.12E-06	1.960E 03	1.978E 03	1.995E 03	2.011E 03	2.025E 03	2.037E 03	2.045E 03	2.050E 03	2.455E 04
0.0	2.838E 03	2.862E 03	2.885E 03	2.906E 03	2.924E 03	2.938E 03	2.947E 03	2.952E 03	3.550E 04

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 400.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	6.188E-05	6.833E-05	9.220E-05	1.314E-04	1.845E-04	2.693E-04	4.154E-04	6.491E-04	9.803E-04
3.91E 00---4.97E 00	3.391E-03	3.432E-03	3.593E-03	3.872E-03	4.220E-03	4.618E-03	5.060E-03	5.564E-03	6.184E-03
3.01E 00---4.07E 00	7.020E-03	6.995E-03	6.900E-03	6.755E-03	6.618E-03	6.536E-03	6.559E-03	6.742E-03	7.165E-03
2.46E 00---3.01E 00	9.034E-03	9.038E-03	9.059E-03	9.111E-03	9.220E-03	9.426E-03	9.752E-03	1.041E-02	1.138E-02
2.35E 00---2.46E 00	1.276E-02	1.275E-02	1.274E-02	1.275E-02	1.286E-02	1.314E-02	1.371E-02	1.472E-02	1.633E-02
1.83E 00---2.35E 00	1.002E-02	1.004E-02	1.013E-02	1.032E-02	1.063E-02	1.112E-02	1.182E-02	1.279E-02	1.409E-02
1.11E 00---1.83E 00	1.027E-02	1.029E-02	1.041E-02	1.064E-02	1.098E-02	1.145E-02	1.208E-02	1.288E-02	1.389E-02
5.50E-01---1.11E 00	1.726E-02	1.730E-02	1.748E-02	1.782E-02	1.832E-02	1.901E-02	1.989E-02	2.095E-02	2.234E-02
1.11E-01---5.50E-01	3.143E-02	3.149E-02	3.171E-02	3.214E-02	3.275E-02	3.355E-02	3.454E-02	3.572E-02	3.709E-02
3.35E-02---1.11E-01	2.293E-01	2.295E-01	2.305E-01	2.323E-01	2.348E-01	2.380E-01	2.419E-01	2.464E-01	2.514E-01
5.83E-04---3.35E-02	2.054E-01	2.055E-01	2.062E-01	2.074E-01	2.091E-01	2.113E-01	2.139E-01	2.169E-01	2.202E-01
1.01E-04---5.83E-04	1.265E 01	1.266E 01	1.270E 01	1.277E 01	1.287E 01	1.299E 01	1.314E 01	1.330E 01	1.348E 01
2.90E-05---1.01E-04	5.546E 01	5.549E 01	5.565E 01	5.593E 01	5.632E 01	5.683E 01	5.743E 01	5.810E 01	5.885E 01
1.07E-05---2.90E-05	1.635E 02	1.636E 02	1.640E 02	1.648E 02	1.659E 02	1.674E 02	1.691E 02	1.710E 02	1.731E 02
3.06E-06---1.07E-05	4.425E 02	4.427E 02	4.439E 02	4.460E 02	4.489E 02	4.526E 02	4.571E 02	4.621E 02	4.675E 02
1.12E-06---3.06E-06	1.194E 03	1.194E 03	1.197E 03	1.203E 03	1.210E 03	1.220E 03	1.232E 03	1.245E 03	1.259E 03
4.14E-07---1.12E-06	2.629E 03	2.630E 03	2.637E 03	2.648E 03	2.665E 03	2.685E 03	2.710E 03	2.737E 03	2.767E 03
0.0 ---4.14E-07	3.846E 03	3.848E 03	3.857E 03	3.874E 03	3.897E 03	3.924E 03	3.956E 03	3.991E 03	4.030E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	1.408E-03	2.021E-03	3.026E-03	5.109E-03	9.663E-03	2.001E-02	4.812E-02	3.420E-01	1.116E-01
4.07E 00---4.97E 00	7.074E-03	8.362E-03	1.077E-02	1.513E-02	2.356E-02	4.024E-02	7.850E-02	3.331E-01	2.048E-01
3.01E 00---4.07E 00	7.993E-03	9.295E-03	1.157E-02	1.504E-02	2.050E-02	2.905E-02	4.403E-02	7.741E-02	1.530E-01
2.46E 00---3.01E 00	1.291E-02	1.515E-02	1.857E-02	2.360E-02	3.127E-02	4.325E-02	6.361E-02	1.017E-01	2.298E-01
2.35E 00---2.46E 00	1.879E-02	2.236E-02	2.759E-02	3.510E-02	4.615E-02	6.291E-02	9.030E-02	1.391E-01	3.312E-01
1.83E 00---2.35E 00	1.584E-02	1.801E-02	2.096E-02	2.469E-02	2.965E-02	3.610E-02	4.478E-02	5.621E-02	3.315E-01
1.11E 00---1.83E 00	1.512E-02	1.666E-02	1.847E-02	2.065E-02	2.316E-02	2.602E-02	2.912E-02	3.228E-02	2.024E-01
5.50E-01---1.11E 00	2.395E-02	2.588E-02	2.808E-02	3.060E-02	3.335E-02	3.628E-02	3.918E-02	4.188E-02	3.116E-01
1.11E-01---5.50E-01	3.867E-02	4.027E-02	4.211E-02	4.391E-02	4.574E-02	4.738E-02	4.878E-02	4.971E-02	4.860E-01
3.35E-02---1.11E-01	2.567E-01	2.625E-01	2.680E-01	2.735E-01	2.784E-01	2.826E-01	2.857E-01	2.876E-01	3.211E 00
5.83E-04---3.35E-02	2.237E-01	2.273E-01	2.308E-01	2.341E-01	2.371E-01	2.395E-01	2.414E-01	2.424E-01	2.798E 00
1.01E-04---5.83E-04	1.368E 01	1.387E 01	1.406E 01	1.425E 01	1.441E 01	1.454E 01	1.464E 01	1.469E 01	1.711E 02
2.90E-05---1.01E-04	5.962E 01	6.042E 01	6.119E 01	6.192E 01	6.256E 01	6.309E 01	6.348E 01	6.370E 01	7.459E 02
1.07E-05---2.90E-05	1.754F 02	1.776E 02	1.798E 02	1.819E 02	1.837E 02	1.852E 02	1.863E 02	1.869E 02	2.194E 03
3.06E-06---1.07E-05	4.733E 02	4.791E 02	4.847E 02	4.900E 02	4.946E 02	4.985E 02	5.013E 02	5.029E 02	5.921E 03
1.12E-06---3.06E-06	1.289F 03	1.289F 03	1.303E 03	1.317E 03	1.329E 03	1.338E 03	1.346E 03	1.350E 03	1.594E 04
4.14E-07---1.12E-06	2.798E 03	2.830E 03	2.861E 03	2.890E 03	2.915E 03	2.935E 03	2.950E 03	2.959E 03	3.502E 04
0.0 ---4.14E-07	4.070E 03	4.112E 03	4.153E 03	4.192E 03	4.224E 03	4.250E 03	4.268E 03	4.277E 03	5.097E 04

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.07550	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	5.249E-05	5.707E-05	7.344E-05	1.033E-04	1.439E-04	2.090E-04	3.194E-04	4.935E-04	7.394E-04
4.07E 00---4.97E 00	2.427E-03	2.455E-03	2.567E-03	2.760E-03	3.001E-03	3.278E-03	3.588E-03	3.945E-03	4.391E-03
3.01E 00---4.07E 00	4.938E-03	4.921E-03	4.859E-03	4.766E-03	4.682E-03	4.639E-03	4.676E-03	4.833E-03	5.172E-03
2.46E 00---3.01E 00	6.766E-03	6.770E-03	6.789E-03	6.834E-03	6.926E-03	7.100E-03	7.406E-03	7.918E-03	8.736E-03
2.35E 00---2.46E 00	5.693E-03	5.695E-03	5.708E-03	5.762E-03	5.908E-03	6.211E-03	6.777E-03	7.518E-03	8.736E-03
1.87E 00---2.35E 00	8.386E-03	8.406E-03	8.432E-03	8.471E-03	8.644E-03	9.409E-03	1.005E-02	1.093E-02	1.212E-02
1.11E 00---1.87E 00	9.389E-03	9.415E-03	9.527E-03	9.746E-03	1.007E-02	1.054E-02	1.115E-02	1.193E-02	1.292E-02
5.50E-01---1.11E 00	1.702E-02	1.707E-02	1.725E-02	1.762E-02	1.815E-02	1.888E-02	1.983E-02	2.102E-02	2.248E-02
1.11E-01---5.50E-01	3.341E-02	3.347E-02	3.373E-02	3.422E-02	3.493E-02	3.565E-02	3.701E-02	3.839E-02	3.998E-02
3.35E-02---1.11E-01	2.571E-01	2.574E-01	2.585E-01	2.608E-01	2.639E-01	2.679E-01	2.728E-01	2.784E-01	2.847E-01
5.83E-04---3.35E-02	2.341E-01	2.344E-01	2.352E-01	2.368E-01	2.389E-01	2.417E-01	2.451E-01	2.489E-01	2.531E-01
1.01E-04---5.83E-04	1.461E-01	1.462E-01	1.467E-01	1.476E-01	1.488E-01	1.504E-01	1.524E-01	1.545E-01	1.569E-01
2.90E-05---1.01E-04	6.454E-01	6.459E-01	6.479E-01	6.516E-01	6.568E-01	6.635E-01	6.714E-01	6.804E-01	6.903E-01
1.07E-05---2.90E-05	1.914E-02	1.915E-02	1.921E-02	1.932E-02	1.947E-02	1.965E-02	1.989E-02	2.015E-02	2.043E-02
3.06E-06---1.07E-05	5.216E-02	5.220E-02	5.235E-02	5.263E-02	5.303E-02	5.352E-02	5.413E-02	5.482E-02	5.556E-02
1.12E-06---3.06E-06	1.415E-03	1.415E-03	1.420E-03	1.427E-03	1.437E-03	1.451E-03	1.466E-03	1.482E-03	1.504E-03
4.14E-07---1.12E-06	3.130E-03	3.132E-03	3.141E-03	3.157E-03	3.179E-03	3.207E-03	3.241E-03	3.279E-03	3.321E-03
0.0 ---4.14E-07	4.603E-03	4.606E-03	4.619E-03	4.642E-03	4.673E-03	4.711E-03	4.755E-03	4.804E-03	4.858E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	1.065E-03	1.526E-03	2.314E-03	3.915E-03	7.376E-03	1.505E-02	3.453E-02	2.073E-01	7.500E-02
4.07E 00---4.97E 00	5.016E-03	6.019E-03	7.773E-03	1.101E-02	1.711E-02	2.895E-02	5.481E-02	1.944E-01	1.394E-01
3.01E 00---4.07E 00	5.788E-03	6.837E-03	8.519E-03	1.115E-02	1.515E-02	2.132E-02	3.156E-02	5.308E-02	1.105E-01
2.46E 00---3.01E 00	9.998E-03	1.151E-02	1.477E-02	1.907E-02	2.559E-02	3.587E-02	5.324E-02	8.613E-02	1.835E-01
2.35E 00---2.46E 00	1.534E-02	1.855E-02	2.333E-02	3.009E-02	4.027E-02	5.590E-02	8.155E-02	1.280E-01	2.804E-01
1.87E 00---2.35E 00	1.370E-02	1.571E-02	1.845E-02	2.196E-02	2.655E-02	3.259E-02	4.056E-02	5.093E-02	2.029E-01
1.11E 00---1.87E 00	1.415E-02	1.561E-02	1.746E-02	1.962E-02	2.212E-02	2.492E-02	2.789E-02	3.068E-02	1.900E-01
5.50E-01---1.11E 00	2.425E-02	2.634E-02	2.878E-02	3.156E-02	3.461E-02	3.781E-02	4.091E-02	4.353E-02	3.166E-01
1.11E-01---5.50E-01	4.178E-02	4.376E-02	4.587E-02	4.804E-02	5.016E-02	5.209E-02	5.367E-02	5.488E-02	5.260E-01
3.35E-02---1.11E-01	2.915E-01	2.986E-01	3.057E-01	3.125E-01	3.188E-01	3.249E-01	3.280E-01	3.303E-01	3.644E-00
5.83E-04---3.35E-02	2.576E-01	2.622E-01	2.668E-01	2.711E-01	2.749E-01	2.781E-01	2.805E-01	2.819E-01	3.220E-00
1.01E-04---5.83E-04	1.595E-01	1.620E-01	1.646E-01	1.670E-01	1.691E-01	1.709E-01	1.722E-01	1.729E-01	1.994E-02
2.90E-05---1.01E-04	7.007E-01	7.113E-01	7.218E-01	7.315E-01	7.402E-01	7.474E-01	7.527E-01	7.571E-01	8.762E-02
1.07E-05---2.90E-05	2.073E-02	2.104E-02	2.134E-02	2.162E-02	2.187E-02	2.207E-02	2.222E-02	2.231E-02	2.593E-03
3.06E-06---1.07E-05	5.634E-02	5.714E-02	5.792E-02	5.865E-02	5.929E-02	5.983E-02	6.021E-02	6.044E-02	7.046E-03
1.12E-06---3.06E-06	1.524E-03	1.545E-03	1.565E-03	1.584E-03	1.601E-03	1.614E-03	1.625E-03	1.630E-03	1.906E-04
4.14E-07---1.12E-06	3.364E-03	3.409E-03	3.452E-03	3.492E-03	3.528E-03	3.557E-03	3.578E-03	3.591E-03	4.208E-04
0.0 ---4.14E-07	4.915E-03	4.974E-03	5.032E-03	5.086E-03	5.133E-03	5.170E-03	5.196E-03	5.210E-03	6.152E-04



## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	4.115E-05	4.631E-05	5.642E-05	7.715E-05	1.068E-04	1.547E-04	2.346E-04	3.593E-04	5.350E-04
4.07E 00--4.97E 00	1.538E-03	1.707E-03	1.782E-03	1.912E-03	2.075E-03	2.264E-03	2.475E-03	2.722E-03	3.034E-03
3.01E 00--4.07E 00	3.371E-03	3.321E-03	3.321E-03	3.263E-03	3.213E-03	3.192E-03	3.229E-03	3.353E-03	3.609E-03
2.46E 00--3.01E 00	4.825E-03	4.825E-03	4.844E-03	4.881E-03	4.956E-03	5.094E-03	5.336E-03	5.739E-03	6.382E-03
2.35E 00--2.46E 00	6.999E-03	7.004E-03	7.031E-03	7.102E-03	7.255E-03	7.542E-03	8.032E-03	8.819E-03	1.002E-02
1.83E 00--2.35E 00	6.590E-03	6.607E-03	6.622E-03	6.837E-03	7.087E-03	7.465E-03	8.004E-03	8.748E-03	9.751E-03
1.11E 00--1.83E 00	7.929E-03	7.952E-03	8.051E-03	8.243E-03	8.532E-03	8.939E-03	9.480E-03	1.018E-02	1.106E-02
5.50E-01--1.11E 00	1.533E-02	1.537E-02	1.535E-02	1.590E-02	1.641E-02	1.711E-02	1.802E-02	1.916E-02	2.058E-02
3.35E-02--1.11E-01	3.210E-02	3.217E-02	3.244E-02	3.296E-02	3.366E-02	3.461E-02	3.579E-02	3.722E-02	3.887E-02
5.83E-04--3.35E-02	2.587E-01	2.591E-01	2.604E-01	2.628E-01	2.662E-01	2.706E-01	2.759E-01	2.820E-01	2.889E-01
1.01E-04--5.83E-04	2.391E-01	2.393E-01	2.402E-01	2.419E-01	2.444E-01	2.475E-01	2.512E-01	2.555E-01	2.602E-01
2.90E-05--1.01E-04	1.508E 01	1.509E 01	1.515E 01	1.525E 01	1.539E 01	1.557E 01	1.578E 01	1.603E 01	1.630E 01
1.07E-05--2.90E-05	6.708E 01	6.714E 01	6.737E 01	6.779E 01	6.839E 01	6.915E 01	7.005E 01	7.109E 01	7.222E 01
3.06E-06--1.07E-05	1.999E 02	2.001E 02	2.008E 02	2.020E 02	2.038E 02	2.060E 02	2.086E 02	2.116E 02	2.149E 02
1.12E-06--3.06E-06	5.484E 02	5.488E 02	5.506E 02	5.539E 02	5.585E 02	5.644E 02	5.713E 02	5.793E 02	5.880E 02
4.14E-07--1.12E-06	1.494E 03	1.495E 03	1.500E 03	1.521E 03	1.551E 03	1.586E 03	1.626E 03	1.670E 03	1.719E 03
0.0	3.320E 03	3.323E 03	3.333E 03	3.352E 03	3.378E 03	3.411E 03	3.451E 03	3.496E 03	3.546E 03
0.0	4.906E 03	4.910E 03	4.925E 03	4.952E 03	4.988E 03	5.034E 03	5.086E 03	5.145E 03	5.210E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	7.705E-04	1.110E-03	1.697E-03	2.880E-03	5.401E-03	1.089E-02	2.420E-02	1.254E-01	4.990E-02
4.07E 00--4.97E 00	3.479E-03	4.195E-03	5.452E-03	7.749E-03	1.200E-02	2.009E-02	3.710E-02	1.178E-01	9.331E-02
3.01E 00--4.07E 00	4.065E-03	4.827E-03	6.042E-03	7.913E-03	1.073E-02	1.499E-02	2.175E-02	3.497E-02	7.699E-02
2.46E 00--3.01E 00	7.376E-03	8.883E-03	1.115E-02	1.457E-02	1.979E-02	2.801E-02	4.186E-02	6.802E-02	1.389E-01
2.35E 00--2.46E 00	1.183E-02	1.448E-02	1.838E-02	2.416E-02	3.284E-02	4.533E-02	6.895E-02	1.091E-01	2.233E-01
1.83E 00--2.35E 00	1.108E-02	1.283E-02	1.512E-02	1.812E-02	2.205E-02	2.719E-02	3.392E-02	4.248E-02	1.655E-01
1.11E 00--1.83E 00	1.216E-02	1.350E-02	1.513E-02	1.707E-02	1.931E-02	2.181E-02	2.440E-02	2.670E-02	1.638E-01
5.50E-01--1.11E 00	2.230E-02	2.435E-02	2.674E-02	2.948E-02	3.249E-02	3.563E-02	3.863E-02	4.101E-02	2.922E-01
1.11E-01--5.50E-01	4.073E-02	4.279E-02	4.499E-02	4.725E-02	4.946E-02	5.147E-02	5.308E-02	5.411E-02	5.131E-01
3.35E-02--1.11E-01	2.963E-01	3.041E-01	3.119E-01	3.195E-01	3.264E-01	3.322E-01	3.366E-01	3.392E-01	3.704E 00
5.83E-04--3.35E-02	2.652E-01	2.704E-01	2.755E-01	2.803E-01	2.847E-01	2.883E-01	2.909E-01	2.925E-01	3.314E 00
1.01E-04--5.83E-04	1.659E 01	1.689E 01	1.718E 01	1.745E 01	1.770E 01	1.790E 01	1.805E 01	1.814E 01	2.074E 02
2.90E-05--1.01E-04	7.342E 01	7.465E 01	7.585E 01	7.695E 01	7.800E 01	7.883E 01	7.944E 01	7.980E 01	9.178E 02
1.07E-05--2.90E-05	2.184E 02	2.220E 02	2.255E 02	2.287E 02	2.317E 02	2.341E 02	2.358E 02	2.369E 02	2.730E 03
3.06E-06--1.07E-05	5.972E 02	6.066E 02	6.158E 02	6.244E 02	6.321E 02	6.384E 02	6.430E 02	6.457E 02	7.466E 03
1.12E-06--3.06E-06	1.623E 03	1.647E 03	1.672E 03	1.694E 03	1.714E 03	1.731E 03	1.743E 03	1.750E 03	2.029E 04
4.14E-07--1.12E-06	3.598E 03	3.651E 03	3.703E 03	3.751E 03	3.794E 03	3.829E 03	3.855E 03	3.870E 03	4.499E 04
0.0	5.278E 03	5.349E 03	5.419E 03	5.485E 03	5.541E 03	5.586E 03	5.618E 03	5.635E 03	6.605E 04

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 900.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	1.553E-05	1.647E-05	2.322E-05	2.691E-05	3.696E-05	5.316E-05	7.935E-05	1.193E-04	1.756E-04
3.01E 00--4.97E 00	5.130E-04	5.182E-04	9.557E-04	9.424E-04	6.218E-04	6.731E-04	7.379E-04	8.116E-04	9.077E-04
2.46E 00--3.01E 00	1.485E-03	1.487E-03	1.494E-03	1.511E-03	1.542E-03	1.599E-03	1.695E-03	1.854E-03	1.085E-03
2.35E 00--2.46E 00	2.224E-03	2.229E-03	2.256E-03	2.306E-03	2.398E-03	2.547E-03	2.779E-03	3.131E-03	2.105E-03
1.83E 00--2.35E 00	2.572E-03	2.580E-03	2.617E-03	2.691E-03	2.807E-03	2.979E-03	3.223E-03	3.559E-03	4.013E-03
1.11E 00--1.83E 00	3.613E-03	3.624E-03	3.673E-03	3.767E-03	3.909E-03	4.111E-03	4.381E-03	4.732E-03	5.177E-03
5.50E 01--1.11E 00	8.089E-03	8.115E-03	8.223E-03	8.426E-03	8.727E-03	9.143E-03	9.685E-03	1.038E-02	1.124E-02
1.11E 01--5.50E 01	1.970E-02	1.975E-02	1.993E-02	2.028E-02	2.078E-02	2.144E-02	2.227E-02	2.327E-02	2.443E-02
3.35E 02--1.11E 01	1.769E-01	1.771E-01	1.782E-01	1.801E-01	1.827E-01	1.862E-01	1.905E-01	1.954E-01	2.009E-01
5.83E 04--3.35E 02	1.688E-01	1.690E-01	1.698E-01	1.712E-01	1.732E-01	1.757E-01	1.788E-01	1.824E-01	1.863E-01
1.01E 04--5.83E 04	1.091E 01	1.093E 01	1.097E 01	1.106E 01	1.118E 01	1.133E 01	1.152E 01	1.173E 01	1.197E 01
2.90E 05--1.01E 04	4.936E 01	4.941E 01	4.941E 01	4.998E 01	5.050E 01	5.116E 01	5.196E 01	5.288E 01	5.388E 01
1.07E 05--2.90E 05	1.489E 02	1.491E 02	1.497E 02	1.508E 02	1.523E 02	1.543E 02	1.567E 02	1.594E 02	1.624E 02
3.06E 06--1.07E 05	4.145E 02	4.149E 02	4.165E 02	4.195E 02	4.237E 02	4.290E 02	4.354E 02	4.428E 02	4.508E 02
1.12E 06--3.06E 06	1.142E 03	1.143E 03	1.147E 03	1.155E 03	1.167E 03	1.181E 03	1.198E 03	1.218F 03	1.239E 03
4.14E 07--1.12E 06	2.564E 03	2.566E 03	2.576E 03	2.593E 03	2.618E 03	2.650E 03	2.687E 03	2.730E 03	2.777E 03
0.0	3.832E 03	3.836E 03	3.850E 03	3.875E 03	3.910E 03	3.953E 03	4.003E 03	4.060E 03	4.123E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	2.535E-04	3.710E-04	5.780E-04	9.876E-04	1.828E-03	3.573E-03	7.466E-03	2.775E-02	1.403E-02
3.01E 00--4.97E 00	1.449E-03	1.279E-03	1.679E-03	2.388E-03	3.650E-03	5.322E-03	1.027E-02	2.456E-02	2.591E-02
2.46E 00--3.01E 00	2.493E-03	1.483E-03	1.865E-03	2.439E-03	3.276E-03	4.476E-03	6.200E-03	8.910E-03	2.279E-02
2.35E 00--2.46E 00	4.427E-03	3.084E-03	3.982E-03	5.351E-03	7.467E-03	1.081E-02	1.637E-02	2.648E-02	4.989E-02
1.83E 00--2.35E 00	4.620E-03	5.425E-03	6.485E-03	9.937E-03	1.404E-02	2.063E-02	3.172E-02	5.194E-02	9.117E-02
1.11E 00--1.83E 00	5.733E-03	6.420E-03	7.258E-03	8.248E-03	9.393E-03	1.065E-02	1.189E-02	1.860E-02	7.026E-02
5.50E 01--1.11E 00	1.230E-02	1.357E-02	1.507E-02	1.680E-02	1.871E-02	2.070E-02	2.255E-02	2.591E-02	1.626E-01
3.35E 02--1.11E 01	2.069E-01	2.132E-01	2.195E-01	2.258E-01	2.314E-01	2.362E-01	2.398E-01	2.419E-01	2.586E 00
5.83E 04--3.35E 02	1.905E-01	1.949E-01	1.972E-01	2.033E-01	2.070E-01	2.101E-01	2.126E-01	2.137E-01	2.380E 00
2.90E 05--1.01E 04	1.655F 02	1.655E 01	1.655E 01	1.750E 01	1.777E 02	1.800F 02	1.816E 02	1.826E 02	2.068E 02
3.06E 06--1.07E 05	4.544E 02	4.681E 02	4.767E 02	4.849E 02	4.921E 02	4.981E 02	5.025E 02	5.051E 02	5.739E 03
1.12E 06--3.06E 06	1.262E 03	1.286E 03	1.309E 03	1.330E 03	1.350E 03	1.365E 03	1.377E 03	1.384E 03	1.577E 04
4.14E 07--1.12E 06	2.827E 03	2.878E 03	2.928E 03	2.976E 03	3.018E 03	3.052E 03	3.078E 03	3.093E 03	3.533E 04
0.0	4.190E 03	4.259E 03	4.328E 03	4.392E 03	4.449E 03	4.494E 03	4.526E 03	4.544E 03	5.239E 04

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4560	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	4.866E-06	5.125E-06	6.180E-06	8.116E-06	1.111E-05	1.590E-05	2.349E-05	3.491E-05	5.113E-05
4.07E 00--4.97E 00	1.439E-04	1.439E-04	1.439E-04	1.589E-04	1.710E-04	1.856E-04	2.022E-04	2.244E-04	2.493E-04
3.01E 00--4.07E 00	2.548E-04	2.548E-04	2.521E-04	2.492E-04	2.473E-04	2.462E-04	2.543E-04	2.682E-04	2.940E-04
2.46E 00--3.01E 00	4.021E-04	4.021E-04	4.054E-04	4.112E-04	4.230E-04	4.409E-04	4.726E-04	5.243E-04	6.057E-04
2.35E 00--2.46E 00	6.187E-04	6.212E-04	6.320E-04	6.541E-04	6.902E-04	7.460E-04	8.294E-04	9.522E-04	1.132E-03
1.83E 00--2.35E 00	8.379E-04	8.411E-04	8.549E-04	8.822E-04	9.247E-04	9.871E-04	1.075E-03	1.195E-03	1.358E-03
1.11E 00--1.83E 00	1.303E-03	1.307E-03	1.325E-03	1.360E-03	1.414E-03	1.490E-03	1.592E-03	1.726E-03	1.896E-03
5.50E 01--1.11E 00	3.230E-03	3.241E-03	3.287E-03	3.373E-03	3.502E-03	3.680E-03	3.913E-03	4.212E-03	4.586E-03
1.11E 01--5.50E 01	8.750E-03	8.771E-03	8.855E-03	9.023E-03	9.281E-03	9.577E-03	9.972E-03	1.045E-02	1.101E-02
3.35E 02--1.11E 01	8.474E-02	8.487E-02	8.540E-02	8.638E-02	8.778E-02	8.959E-02	9.179E-02	9.437E-02	9.727E-02
5.3E 04--3.35E 02	8.263E-02	8.272E-02	8.314E-02	8.389E-02	8.495E-02	8.633E-02	8.798E-02	8.989E-02	9.200E-02
1.01E 04--5.3E 04	5.434E 00	5.440E 00	5.466E 00	5.513E 00	5.578E 00	5.663E 00	5.765E 00	5.882E 00	6.011E 00
2.90E 05--1.01E 04	2.485E 01	2.488E 01	2.499E 01	2.519E 01	2.548E 01	2.585E 01	2.629E 01	2.680E 01	2.736E 01
1.07E 05--2.90E 05	7.563E 01	7.571E 01	7.605E 01	7.666E 01	7.752E 01	7.863E 01	7.996E 01	8.149E 01	8.317E 01
3.06E 06--1.07E 05	2.126E 02	2.129E 02	2.138E 02	2.155E 02	2.178E 02	2.209E 02	2.245E 02	2.287E 02	2.333E 02
1.12E 06--3.06E 06	5.904E 02	5.910E 02	5.935E 02	5.981E 02	6.045E 02	6.128E 02	6.226E 02	6.340E 02	6.464E 02
4.14E 07--1.12E 06	1.335E 03	1.337E 03	1.342E 03	1.352E 03	1.367E 03	1.385E 03	1.407E 03	1.432E 03	1.459E 03
0.0	2.012E 03	2.014E 03	2.021E 03	2.037E 03	2.057E 03	2.082E 03	2.112E 03	2.143E 03	2.182E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	7.415E-05	1.099E-04	1.734E-04	2.970E-04	5.434E-04	1.037E-03	2.075E-03	3.745E-03	3.745E-03
4.07E 00--4.97E 00	2.894E-04	3.548E-04	4.667E-04	6.607E-04	9.47E-04	1.569E-03	2.586E-03	5.144E-03	6.728E-03
3.01E 00--4.07E 00	3.372E-04	4.057E-04	5.100E-04	6.634E-04	8.813E-04	1.181E-03	1.582E-03	2.106E-03	2.803E-03
2.46E 00--3.01E 00	7.314E-04	9.236E-04	1.217E-03	1.670E-03	2.375E-03	3.494E-03	5.325E-03	8.511E-03	1.532E-02
2.35E 00--2.46E 00	1.398E-03	1.796E-03	2.406E-03	3.363E-03	4.901E-03	7.446E-03	1.183E-02	1.981E-02	3.105E-02
1.83E 00--2.35E 00	1.577E-03	1.870E-03	2.258E-03	2.765E-03	3.427E-03	4.275E-03	5.318E-03	6.471E-03	2.423E-02
1.11E 00--1.83E 00	2.109E-03	2.372E-03	2.693E-03	3.075E-03	3.512E-03	3.988E-03	4.444E-03	4.900E-03	2.867E-02
5.50E 01--1.11E 00	1.166E-02	1.377E-02	1.615E-02	1.915E-02	2.274E-02	2.697E-02	3.191E-02	3.745E-02	4.367E-02
3.35E 02--1.11E 01	1.004E-01	1.038E-01	1.071E-01	1.104E-01	1.134E-01	1.160E-01	1.179E-01	1.201E-01	1.225E 00
5.3E 04--3.35E 02	9.427E-02	9.661E-02	9.896E-02	1.012E-01	1.032E-01	1.049E-01	1.061E-01	1.069E-01	1.077E 00
1.01E 04--5.3E 04	6.150E 00	6.292E 00	6.434E 00	6.569E 00	6.690E 00	6.790E 00	6.865E 00	6.908E 00	6.920E 00
2.90E 05--1.01E 04	2.796E 01	2.852E 01	2.919E 01	2.977E 01	3.028E 01	3.071E 01	3.103E 01	3.122E 01	3.139E 01
1.07E 05--2.90E 05	8.496E 01	8.681E 01	8.863E 01	9.036E 01	9.191E 01	9.320E 01	9.414E 01	9.469E 01	9.511E 01
3.06E 06--1.07E 05	2.382E 02	2.433E 02	2.482E 02	2.529E 02	2.572E 02	2.607E 02	2.632E 02	2.647E 02	2.655E 02
1.12E 06--3.06E 06	6.597E 02	6.733E 02	6.867E 02	6.994E 02	7.107E 02	7.201E 02	7.270E 02	7.310E 02	7.330E 02
4.14E 07--1.12E 06	1.488E 03	1.518E 03	1.548E 03	1.576E 03	1.601E 03	1.621E 03	1.637E 03	1.645E 03	1.649E 03
0.0	2.222E 03	2.263E 03	2.304E 03	2.342E 03	2.376E 03	2.403E 03	2.423E 03	2.434E 03	2.437E 03

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9864	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	1.386E-06	1.454E-06	1.735E-06	2.261E-06	3.087E-06	4.003E-06	6.459E-06	9.532E-06	1.392E-05
4.07E 00--4.97E 00	3.758E-05	3.752E-05	3.935E-05	4.168E-05	4.477E-05	4.847E-05	5.276E-05	5.803E-05	6.511E-05
3.01E 00--4.07E 00	6.350E-05	6.300E-05	6.322E-05	6.295E-05	6.245E-05	6.285E-05	6.460E-05	6.841E-05	7.528E-05
2.46E 00--3.01E 00	1.021E-04	1.023E-04	1.032E-04	1.025E-04	1.033E-04	1.033E-04	1.233E-04	1.384E-04	1.622E-04
2.35E 00--2.46E 00	1.610E-04	1.619E-04	1.657E-04	1.731E-04	1.849E-04	2.027E-04	2.286E-04	2.663E-04	3.211E-04
1.83E 00--2.35E 00	2.474E-04	2.484E-04	2.595E-04	2.618E-04	2.755E-04	2.954E-04	3.23E-04	3.613E-04	4.131E-04
1.11E 00--1.83E 00	4.134E-04	4.144E-04	4.207E-04	4.320E-04	4.495E-04	4.744E-04	5.078E-04	5.515E-04	6.073E-04
5.50E-01--1.11E 00	1.104E-03	1.107E-03	1.124E-03	1.155E-03	1.200E-03	1.264E-03	1.347E-03	1.455E-03	1.590E-03
1.11E-01--5.50E-01	3.225E-03	3.237E-03	3.271E-03	3.334E-03	3.426E-03	3.548E-03	3.700E-03	3.886E-03	4.105E-03
3.35E-02--1.11E-01	3.504E-02	3.509E-02	3.531E-02	3.571E-02	3.628E-02	3.703E-02	3.793E-02	3.899E-02	4.019E-02
5.83E-04--3.35E-02	3.270E-02	3.274E-02	3.292E-02	3.323E-02	3.367E-02	3.425E-02	3.494E-02	3.574E-02	3.662E-02
1.01E-04--5.83E-04	2.177E-02	2.179E-02	2.195E-02	2.210E-02	2.238E-02	2.274E-02	2.317E-02	2.367E-02	2.422E-02
2.90E-05--1.01E-04	1.003E-01	1.004E-01	1.009E-01	1.018E-01	1.030E-01	1.046E-01	1.065E-01	1.087E-01	1.111E-01
1.07E-05--2.90E-05	3.072E-01	3.075E-01	3.090E-01	3.116E-01	3.153E-01	3.201E-01	3.258E-01	3.325E-01	3.397E-01
3.06E-06--1.07E-05	8.699E-01	8.708E-01	8.749E-01	8.821E-01	8.925E-01	9.057E-01	9.216E-01	9.399E-01	9.600E-01
1.12E-06--3.06E-06	2.429E-02	2.431E-02	2.442E-02	2.462E-02	2.490E-02	2.527E-02	2.570E-02	2.620E-02	2.674E-02
4.14E-07--1.12E-06	5.521E-02	5.527E-02	5.552E-02	5.596E-02	5.659E-02	5.739E-02	5.836E-02	5.947E-02	6.068E-02
0.0	8.367E-02	8.376E-02	8.413E-02	8.477E-02	8.566E-02	8.677E-02	8.808E-02	8.958E-02	9.124E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9694	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	2.028E-05	3.026E-05	4.833E-05	8.282E-05	1.500E-04	2.809E-04	5.432E-04	1.377E-03	9.642E-04
4.07E 00--4.97E 00	7.576E-05	9.308E-05	1.223E-04	1.719E-04	2.551E-04	3.828E-04	6.216E-04	1.087E-03	1.679E-03
3.01E 00--4.07E 00	8.659E-05	1.042E-04	1.307E-04	1.690E-04	2.222E-04	2.933E-04	3.826E-04	4.838E-04	1.520E-03
2.46E 00--3.01E 00	1.090E-04	2.553E-04	3.420E-04	4.765E-04	6.870E-04	1.022E-03	1.564E-03	2.466E-03	4.318E-03
2.35E 00--2.46E 00	4.020E-04	5.244E-04	7.152E-04	1.022E-03	1.528E-03	2.302E-03	3.908E-03	6.679E-03	9.557E-03
1.83E 00--2.35E 00	4.829E-04	5.761E-04	6.998E-04	8.624E-04	1.073E-03	1.339E-03	1.652E-03	1.993E-03	2.461E-03
1.11E 00--1.83E 00	6.775E-04	7.643E-04	8.700E-04	9.656E-04	1.139E-03	1.293E-03	1.438E-03	1.545E-03	1.622E-03
5.50E-01--1.11E 00	1.757E-03	1.960E-03	2.203E-03	2.484E-03	2.795E-03	3.119E-03	3.414E-03	3.620E-03	3.746E-03
1.11E-01--5.50E-01	4.356E-03	4.634E-03	4.938E-03	5.253E-03	5.561E-03	5.842E-03	6.064E-03	6.199E-03	5.509E-02
3.35E-02--1.11E-01	3.949E-02	4.087E-02	4.227E-02	4.363E-02	4.488E-02	4.595E-02	4.675E-02	4.721E-02	4.935E-01
5.83E-04--3.35E-02	3.757E-02	3.856E-02	3.935E-02	4.049E-02	4.134E-02	4.205E-02	4.258E-02	4.289E-02	4.592E-01
1.01E-04--5.83E-04	2.481E-02	2.542E-02	2.602E-02	2.660E-02	2.712E-02	2.755E-02	2.787E-02	2.805E-02	3.097E-01
2.90E-05--1.01E-04	1.137E-01	1.143E-01	1.192E-01	1.215E-01	1.237E-01	1.256E-01	1.270E-01	1.278E-01	1.419E-02
1.07E-05--2.90E-05	3.475E-01	3.555E-01	3.655E-01	3.710E-01	3.778E-01	3.834E-01	3.876E-01	3.900E-01	4.339E-02
3.06E-06--1.07E-05	9.815E-01	1.004E-02	1.095E-02	1.045E-02	1.065E-02	1.083E-02	1.092E-02	1.098E-02	1.226E-03
1.12E-06--3.06E-06	2.733E-02	2.703E-02	2.835E-02	2.909E-02	3.001E-02	3.01E-02	3.03E-02	3.050E-02	3.413E-03
4.14E-07--1.12E-06	6.198E-02	6.332E-02	6.464E-02	6.589E-02	6.700E-02	6.793E-02	6.861E-02	6.900E-02	7.741E-03
0.0	9.302E-02	9.486E-02	9.669E-02	9.841E-02	9.993E-02	1.012E-03	1.020E-03	1.026E-03	1.162E-04

4 PI R\*2 FLUENCE AT 1800.0 METERS

4.065 TO 6.36 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.25E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	3.725E-07	3.898E-07	4.622E-07	5.992E-07	8.163E-07	1.161E-06	1.695E-06	2.489E-06	3.632E-06
4.07E 00--4.97E 00	9.570E-06	9.653E-06	9.990E-06	1.057E-05	1.133E-05	1.225E-05	1.332E-05	1.455E-05	1.645E-05
3.01E 00--4.07E 00	1.564E-05	1.561E-05	1.550E-05	1.537E-05	1.531E-05	1.543E-05	1.590E-05	1.688E-05	1.862E-05
2.46E 00--3.01E 00	2.503E-05	2.508E-05	2.533E-05	2.584E-05	2.676E-05	2.833E-05	3.092E-05	3.508E-05	4.160E-05
2.35E 00--2.46E 00	4.032E-05	4.059E-05	4.175E-05	4.399E-05	4.745E-05	5.259E-05	5.999E-05	7.066E-05	8.617E-05
1.83E 00--2.35E 00	6.863E-05	6.895E-05	7.032E-05	7.296E-05	7.703E-05	8.291E-05	9.107E-05	1.023E-04	1.175E-04
1.11E 00--1.83E 00	1.211E-04	1.215E-04	1.233E-04	1.266E-04	1.318E-04	1.392E-04	1.492E-04	1.623E-04	1.790E-04
5.50E 01--1.11E 01	3.415E-04	3.427E-04	3.479E-04	3.577E-04	3.723E-04	3.926E-04	4.193E-04	4.537E-04	4.970E-04
1.11E 01--5.50E 01	1.058E-03	1.061E-03	1.072E-03	1.094E-03	1.124E-03	1.166E-03	1.217E-03	1.280E-03	1.354E-03
3.35E 02--1.11E 01	1.127E-02	1.125E-02	1.137E-02	1.151E-02	1.171E-02	1.198E-02	1.230E-02	1.267E-02	1.309E-02
5.83E 04--3.35E 02	1.148E-02	1.130E-02	1.136E-02	1.147E-02	1.163E-02	1.183E-02	1.208E-02	1.237E-02	1.268E-02
1.01E 04--5.83E 04	7.575E-01	7.584E-01	7.623E-01	7.694E-01	7.795E-01	7.924E-01	8.080E-01	8.260E-01	8.459E-01
2.90E 05--1.01E 04	3.511E 00	3.515E 00	3.523E 00	3.54E 00	3.609E 00	3.666E 00	3.735E 00	3.815E 00	3.903E 00
1.07E 05--2.90E 05	1.080E 01	1.081E 01	1.086E 01	1.096E 01	1.109E 01	1.127E 01	1.148E 01	1.172E 01	1.199E 01
3.06E 06--1.07E 05	3.073E 01	3.077E 01	3.091E 01	3.119E 01	3.156E 01	3.205E 01	3.263E 01	3.331E 01	3.405E 01
1.12E 06--3.06E 06	8.615E 01	8.625E 01	8.665E 01	8.739E 01	8.843E 01	8.976E 01	9.136E 01	9.321E 01	9.524E 01
4.14E 07--1.12E 06	1.966E 02	1.966E 02	1.977E 02	1.994E 02	2.017E 02	2.047E 02	2.082E 02	2.124E 02	2.169E 02
0.0	2.991E 02	2.995E 02	3.008E 02	3.032E 02	3.065E 02	3.107E 02	3.156E 02	3.212E 02	3.274E 02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.25E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	5.311E-06	8.010E-06	1.283E-05	2.198E-05	3.949E-05	7.279E-05	1.369E-04	3.085E-04	2.417E-04
4.07E 00--4.97E 00	1.916E-05	2.354E-05	3.086E-05	4.306E-05	6.303E-05	9.507E-05	1.454E-04	2.322E-04	4.086E-04
3.01E 00--4.07E 00	2.144E-05	2.580E-05	3.225E-05	4.145E-05	5.402E-05	7.037E-05	8.995E-05	1.099E-04	3.695E-04
2.46E 00--3.01E 00	5.168E-05	6.718E-05	9.112E-05	1.284E-04	1.871E-04	2.805E-04	4.302E-04	6.697E-04	1.153E-03
2.35E 00--2.46E 00	1.091E-04	1.439E-04	1.992E-04	2.900E-04	4.436E-04	7.118E-04	1.194E-03	2.079E-03	2.757E-03
1.83E 00--2.35E 00	1.380E-04	1.655E-04	2.020E-04	2.499E-04	3.115E-04	3.888E-04	4.795E-04	5.693E-04	2.140E-03
1.11E 00--1.83E 00	2.001E-04	2.261E-04	2.578E-04	2.954E-04	3.381E-04	3.865E-04	4.261E-04	4.563E-04	2.725E-03
5.50E 01--1.11E 01	5.508E-04	6.164E-04	6.947E-04	7.858E-04	8.868E-04	9.913E-04	1.086E-03	1.132E-03	7.375E-03
1.11E 01--5.50E 01	1.439E-03	1.535E-03	1.638E-03	1.745E-03	1.851E-03	1.945E-03	2.022E-03	2.066E-03	1.822E-02
3.35E 02--1.11E 01	1.356E-02	1.405E-02	1.454E-02	1.503E-02	1.547E-02	1.585E-02	1.614E-02	1.631E-02	1.694E-01
5.83E 04--3.35E 02	1.302E-02	1.338E-02	1.373E-02	1.407E-02	1.438E-02	1.464E-02	1.482E-02	1.494E-02	1.626E-01
1.01E 04--5.83E 04	8.673E-01	8.694E-01	8.713E-01	8.732E-01	8.751E-01	8.769E-01	8.787E-01	8.804E-01	1.083E 01
2.90E 05--1.01E 04	3.997E 00	4.094E 00	4.190E 00	4.282E 00	4.364E 00	4.433E 00	4.483E 00	4.512E 00	4.990E 01
1.07E 05--2.90E 05	1.227E 01	1.257E 01	1.286E 01	1.314E 01	1.339E 01	1.359E 01	1.375E 01	1.383E 01	1.532E 02
3.06E 06--1.07E 05	3.484E 01	3.566E 01	3.647E 01	3.724E 01	3.793E 01	3.850E 01	3.893E 01	3.917E 01	4.350E 02
1.12E 06--3.06E 06	9.741E 01	9.964E 01	1.019E 02	1.040E 02	1.058E 02	1.074E 02	1.085E 02	1.092E 02	1.216E 03
4.14E 07--1.12E 06	2.218E 02	2.267E 02	2.317E 02	2.363E 02	2.405E 02	2.440E 02	2.466E 02	2.480E 02	2.769E 03
0.0	3.340E 02	3.409E 02	3.478E 02	3.543E 02	3.600E 02	3.647E 02	3.680E 02	3.699E 02	4.174E 03

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-0.0000	MU=-0.0894	MU=-0.0446	MU=-0.0656	MU=-0.0750	MU=-0.0179	MU=-0.0480	MU=-0.02816	MU=-0.0950
6.50E 00--8.00E 00	3.227E-07	3.230E-07	3.243E-07	3.266E-07	3.301E-07	3.346E-07	3.400E-07	3.461E-07	3.528E-07
5.00E 00--6.50E 00	6.651E-07	6.658E-07	6.683E-07	6.731E-07	6.802E-07	6.893E-07	7.003E-07	7.128E-07	7.264E-07
4.00E 00--5.00E 00	8.439E-05	8.484E-05	8.660E-05	8.998E-05	9.493E-05	1.017E-04	1.107E-04	1.228E-04	1.393E-04
3.00E 00--4.00E 00	7.528E-05	7.583E-05	7.794E-05	8.180E-05	8.709E-05	9.387E-05	1.026E-04	1.144E-04	1.304E-04
2.50E 00--3.00E 00	2.167E-05	2.195E-05	2.295E-05	2.462E-05	2.662E-05	2.882E-05	3.136E-05	3.468E-05	3.930E-05
2.00E 00--2.50E 00	2.885E-04	2.901E-04	2.965E-04	3.086E-04	3.260E-04	3.494E-04	3.805E-04	4.222E-04	4.787E-04
1.66E 00--2.00E 00	4.833E-04	4.864E-04	4.984E-04	5.207E-04	5.518E-04	5.925E-04	6.459E-04	7.116E-04	8.154E-04
1.33E 00--1.66E 00	2.488E-04	2.507E-04	2.579E-04	2.709E-04	2.884E-04	3.107E-04	3.397E-04	3.788E-04	4.326E-04
1.00E 00--1.33E 00	3.151E-04	3.164E-04	3.216E-04	3.283E-04	3.374E-04	3.493E-04	3.649E-04	3.857E-04	4.134E-04
8.00E 01--1.00E 01	9.331E-05	9.213E-05	8.846E-05	8.428E-05	8.353E-05	8.755E-05	1.003E-04	1.171E-04	1.383E-04
6.00E 01--8.00E 01	1.031E-04	1.024E-04	1.007E-04	9.987E-05	1.030E-04	1.120E-04	1.269E-04	1.470E-04	1.731E-04
4.00E 01--6.00E 01	9.842E-05	1.008E-04	1.094E-04	1.238E-04	1.409E-04	1.580E-04	1.774E-04	2.025E-04	2.397E-04
3.00E 01--4.00E 01	3.473E-04	3.502E-04	3.512E-04	3.806E-04	4.068E-04	4.410E-04	4.883E-04	5.355E-04	5.944E-04
2.00E 01--3.00E 01	5.984E-04	5.990E-04	6.047E-04	6.254E-04	6.729E-04	7.534E-04	8.649E-04	9.964E-04	1.134E-03
1.00E 01--2.00E 01	2.030E-03	2.035E-03	2.057E-03	2.092E-03	2.132E-03	2.171E-03	2.208E-03	2.248E-03	2.299E-03
5.00E 02--1.00E 01	3.770E-03	3.774E-03	3.794E-03	3.831E-03	3.887E-03	3.961E-03	4.055E-03	4.171E-03	4.309E-03
2.00E 02--5.00E 02	7.505E-03	7.512E-03	7.537E-03	7.586E-03	7.658E-03	7.751E-03	7.865E-03	7.999E-03	8.153E-03
	2.042E-03	2.043E-03	2.046E-03	2.053E-03	2.062E-03	2.074E-03	2.089E-03	2.106E-03	2.125E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	4.493E-06
6.50E 00--8.00E 00	3.600E-07	3.673E-07	3.743E-07	3.807E-07	3.865E-07	3.916E-07	3.948E-07	3.946E-07	9.248E-06
5.00E 00--6.50E 00	7.409E-07	7.557E-07	7.701E-07	7.831E-07	7.948E-07	8.051E-07	8.116E-07	8.112E-07	2.982E-03
4.00E 00--5.00E 00	1.667E-04	2.250E-04	2.691E-04	2.755E-04	3.580E-04	4.065E-04	4.851E-04	1.502E-03	2.839E-03
3.00E 00--4.00E 00	1.572E-04	2.140E-04	2.568E-04	2.633E-04	3.442E-04	5.860E-04	9.547E-04	1.456E-03	8.416E-04
2.50E 00--3.00E 00	7.199E-05	5.831E-05	6.702E-05	7.710E-05	1.049E-04	1.681E-04	2.586E-04	3.753E-04	1.017E-02
2.00E 00--2.50E 00	1.021E-03	1.021E-03	8.018E-04	9.358E-04	1.242E-03	2.025E-03	3.193E-03	4.755E-03	1.737E-02
1.66E 00--2.00E 00	1.326E-03	1.326E-03	1.590E-03	1.634E-03	2.111E-03	3.518E-03	5.633E-03	8.442E-03	9.444E-02
1.33E 00--1.66E 00	9.332E-04	9.332E-04	7.386E-04	8.705E-04	1.177E-03	1.940E-03	3.068E-03	4.549E-03	1.130E-02
1.00E 00--1.33E 00	1.125E-03	1.125E-03	8.918E-04	1.057E-03	1.430E-03	2.338E-03	3.659E-03	5.374E-03	3.087E-03
8.00E 01--1.00E 01	2.162E-04	2.162E-04	2.686E-04	3.367E-04	5.044E-04	7.451E-04	9.905E-04	1.132E-03	3.682E-03
6.00E 01--8.00E 01	2.728E-04	2.728E-04	3.432E-04	4.326E-04	6.151E-04	8.375E-04	1.110E-03	1.188E-03	4.740E-03
4.00E 01--6.00E 01	3.838E-04	3.838E-04	4.786E-04	5.858E-04	7.702E-04	9.706E-04	1.025E-03	1.188E-03	1.060E-02
3.00E 01--4.00E 01	9.228E-04	9.228E-04	1.068E-03	1.212E-03	1.458E-03	1.736E-03	1.827E-03	2.128E-03	1.571E-02
2.00E 01--3.00E 01	1.407E-03	1.407E-03	1.523E-03	1.642E-03	1.877E-03	2.150E-03	2.234E-03	2.506E-03	3.152E-02
1.00E 01--2.00E 01	2.506E-03	2.506E-03	2.632E-03	2.766E-03	3.076E-03	3.497E-03	3.689E-03	4.071E-03	5.693E-02
5.00E 02--1.00E 01	4.664E-03	4.664E-03	4.877E-03	5.104E-03	5.353E-03	5.622E-03	5.855E-03	5.976E-03	1.045E-01
2.00E 02--5.00E 02	8.324E-03	8.324E-03	8.701E-03	8.890E-03	9.074E-03	9.248E-03	9.375E-03	9.420E-03	2.691E-02
	2.146E-03	2.167E-03	2.189E-03	2.210E-03	2.230E-03	2.247E-03	2.259E-03	2.264E-03	

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 150.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	1.118E-06	1.120E-06	1.128E-06	1.143E-06	1.166E-06	1.195E-06	1.232E-06	1.274E-06	1.322E-06
6.50E 00--8.00E 00	2.306E-06	2.310E-06	2.326E-06	2.358E-06	2.404E-06	2.464E-06	2.538E-06	2.625E-06	2.723E-06
5.00E 00--6.50E 00	1.095E-04	1.093E-04	1.121E-04	1.172E-04	1.241E-04	1.329E-04	1.443E-04	1.595E-04	1.806E-04
4.00E 00--5.00E 00	8.327E-05	8.439E-05	8.846E-05	9.524E-05	1.032E-04	1.120E-04	1.223E-04	1.362E-04	1.562E-04
3.00E 00--4.00E 00	3.043E-05	3.122E-05	3.395E-05	3.815E-05	4.238E-05	4.600E-05	4.945E-05	5.397E-05	6.088E-05
2.50E 00--3.00E 00	3.352E-04	2.379E-04	3.483E-04	5.972E-04	3.908E-04	4.210E-04	4.598E-04	5.125E-04	5.858E-04
2.00E 00--2.50E 00	5.376E-04	5.429E-04	5.629E-04	5.972E-04	6.398E-04	6.901E-04	7.529E-04	8.386E-04	9.598E-04
1.66E 00--2.00E 00	2.782E-04	2.818E-04	2.948E-04	3.163E-04	3.416E-04	3.703E-04	4.049E-04	4.536E-04	5.240E-04
1.33E 00--1.66E 00	3.705E-04	3.717E-04	3.767E-04	3.879E-04	4.077E-04	4.389E-04	4.848E-04	5.487E-04	6.355E-04
1.00E 00--1.33E 00	1.611E-04	1.571E-04	1.440E-04	1.283E-04	1.225E-04	1.335E-04	1.603E-04	1.970E-04	2.400E-04
8.00E 01--1.00E 00	1.729E-04	1.703E-04	1.626E-04	1.558E-04	1.595E-04	1.785E-04	2.109E-04	2.532E-04	3.077E-04
6.00E 01--8.00E 01	1.433E-04	1.495E-04	1.717E-04	2.066E-04	2.430E-04	2.758E-04	3.095E-04	3.586E-04	4.453E-04
4.00E 01--6.00E 01	5.972E-04	6.040E-04	6.289E-04	6.711E-04	7.252E-04	7.980E-04	9.081E-04	1.080E-03	1.332E-03
3.00E 01--4.00E 01	1.074E-03	1.074E-03	1.087E-03	1.142E-03	1.280E-03	1.521E-03	1.852E-03	2.233E-03	2.614E-03
2.00E 01--3.00E 01	4.360E-03	4.377E-03	4.440E-03	4.542E-03	4.648E-03	4.742E-03	4.822E-03	4.904E-03	5.019E-03
1.00E 01--2.00E 01	9.826E-03	9.842E-03	9.906E-03	1.003E-02	1.031E-02	1.046E-02	1.078E-02	1.118E-02	1.167E-02
5.00E 02--1.00E 01	2.262E-02	2.264E-02	2.275E-02	2.297E-02	2.328E-02	2.369E-02	2.420E-02	2.481E-02	2.553E-02
2.00E 02--5.00E 02	6.462E-03	6.466E-03	6.481E-03	6.511E-03	6.553E-03	6.608E-03	6.676E-03	6.757E-03	6.848E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	1.375E-06	1.431E-06	1.487E-06	1.543E-06	1.593E-06	1.636E-06	1.667E-06	1.683E-06	1.717E-05
6.50E 00--8.00E 00	2.830E-06	2.942E-06	3.058E-06	3.170E-06	3.271E-06	3.358E-06	3.421E-06	3.454E-06	3.523E-05
5.00E 00--6.50E 00	1.748E-04	2.770E-04	2.794E-04	4.960E-04	4.703E-04	9.943E-04	1.565E-03	3.449E-03	4.360E-03
4.00E 00--5.00E 00	1.505E-04	2.499E-04	2.705E-04	3.934E-04	5.946E-04	8.223E-04	1.524E-03	3.329E-03	4.013E-03
3.00E 00--4.00E 00	5.592E-05	9.863E-05	9.458E-05	1.478E-04	3.139E-04	5.099E-04	1.003E-03	1.003E-03	1.425E-03
2.50E 00--3.00E 00	8.372E-04	6.972E-04	1.169E-03	1.254E-03	2.600E-03	3.011E-03	4.980E-03	1.049E-02	1.426E-02
2.00E 00--2.50E 00	9.182E-04	1.527E-03	1.625E-03	2.361E-03	3.541E-03	4.763E-03	6.655E-03	1.803E-02	2.360E-02
1.66E 00--2.00E 00	7.615E-04	6.399E-04	1.097E-03	1.213E-03	2.018E-03	3.046E-03	5.075E-03	1.024E-02	1.363E-02
1.33E 00--1.66E 00	9.205E-04	7.737E-04	1.328E-03	1.490E-03	2.481E-03	3.697E-03	6.016E-03	1.180E-02	1.639E-02
1.00E 00--1.33E 00	3.324E-04	3.670E-04	5.335E-04	8.433E-04	1.196E-03	1.882E-03	2.696E-03	3.827E-03	7.009E-03
8.00E 01--1.00E 00	4.259E-04	5.068E-04	7.412E-04	1.121E-03	1.520E-03	2.175E-03	2.813E-03	3.544E-03	8.485E-03
6.00E 01--8.00E 01	6.268E-04	8.007E-04	1.122E-03	1.548E-03	1.946E-03	2.531E-03	3.059E-03	3.649E-03	1.110E-02
4.00E 01--6.00E 01	1.710E-03	2.046E-03	2.507E-03	3.021E-03	3.459E-03	4.171E-03	4.938E-03	6.009E-03	2.390E-02
3.00E 01--4.00E 01	3.010E-03	3.260E-03	3.601E-03	4.035E-03	4.452E-03	5.181E-03	5.914E-03	6.800E-03	3.637E-02
2.00E 01--3.00E 01	5.289E-03	5.437E-03	5.838E-03	6.465E-03	6.977E-03	7.992E-03	8.989E-03	1.034E-02	7.036E-02
1.00E 01--2.00E 01	1.226E-02	1.293E-02	1.375E-02	1.465E-02	1.563E-02	1.672E-02	1.775E-02	1.863E-02	1.577E-01
5.00E 02--1.00E 01	2.635E-02	2.724E-02	2.823E-02	2.923E-02	3.023E-02	3.118E-02	3.198E-02	3.249E-02	3.320E-01
2.00E 02--5.00E 02	6.950E-03	7.057E-03	7.169E-03	7.282E-03	7.386E-03	7.480E-03	7.552E-03	7.595E-03	8.721E-02

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 200.0 METERS

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9804	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.780E-06	1.784E-06	1.800E-06	1.831E-06	1.877E-06	1.938E-06	2.014E-06	2.104E-06	2.208E-06
6.50E 00---8.00E 00	3.674E-06	3.683E-06	3.715E-06	3.779E-06	3.873E-06	3.997E-06	4.151E-06	4.334E-06	4.545E-06
5.00E 00---6.50E 00	1.188E-04	1.198E-04	1.232E-04	1.293E-04	1.370E-04	1.465E-04	1.584E-04	1.745E-04	1.969E-04
4.00E 00---5.00E 00	8.095E-05	8.243E-05	8.774E-05	9.619E-05	1.053E-04	1.144E-04	1.243E-04	1.379E-04	1.584E-04
3.00E 00---4.00E 00	3.485E-05	3.601E-05	4.01E-05	4.597E-05	5.151E-05	5.66E-05	6.30E-05	7.196E-05	8.364E-05
2.50E 00---3.00E 00	3.262E-04	3.294E-04	3.47E-04	3.62E-04	3.885E-04	4.191E-04	4.577E-04	5.108E-04	5.864E-04
2.00E 00---2.50E 00	5.134E-04	5.199E-04	5.439E-04	5.831E-04	6.285E-04	6.781E-04	7.384E-04	8.224E-04	9.454E-04
1.66E 00---2.00E 00	2.666E-04	2.710E-04	2.871E-04	3.124E-04	3.398E-04	3.679E-04	4.017E-04	4.507E-04	5.245E-04
1.33E 00---1.66E 00	3.671E-04	3.679E-04	3.77E-04	3.813E-04	4.001E-04	4.320E-04	4.802E-04	5.479E-04	6.390E-04
1.00E 00---1.33E 00	1.865E-04	1.804E-04	1.608E-04	1.372E-04	1.234E-04	1.035E-04	1.799E-04	2.271E-04	2.783E-04
8.00E 01---1.00E 01	1.968E-04	1.828E-04	1.807E-04	1.693E-04	1.734E-04	1.986E-04	2.408E-04	2.931E-04	3.578E-04
6.00E 01---8.00E 01	1.499E-04	1.584E-04	1.899E-04	2.356E-04	3.191E-04	3.91E-04	3.555E-04	4.124E-04	5.228E-04
4.00E 01---6.00E 01	6.900E-04	6.889E-04	7.31E-04	7.850E-04	8.509E-04	9.600E-04	1.081E-03	1.311E-03	1.657E-03
3.00E 01---4.00E 01	1.269E-03	1.268E-03	1.281E-03	1.350E-03	1.545E-03	1.883E-03	2.346E-03	2.875E-03	3.388E-03
2.00E 01---3.00E 01	5.479E-03	5.503E-03	5.593E-03	5.733E-03	5.877E-03	5.999E-03	6.097E-03	6.196E-03	6.340E-03
1.00E 01---2.00E 01	1.330E-02	1.333E-02	1.342E-02	1.360E-02	1.387E-02	1.424E-02	1.471E-02	1.530E-02	1.602E-02
5.00E 02---1.00E 01	3.272E-02	3.277E-02	3.295E-02	3.330E-02	3.381E-02	3.448E-02	3.532E-02	3.633E-02	3.752E-02
2.00E 02---5.00E 02	9.558E-03	9.564E-03	9.590E-03	9.638E-03	9.709E-03	9.799E-03	9.911E-03	1.004E-02	1.020E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.324E-06	2.450E-06	2.581E-06	2.713E-06	2.836E-06	2.943E-06	3.032E-06	3.068E-06	2.914E-05
6.50E 00---8.00E 00	4.781E-06	5.037E-06	5.303E-06	5.569E-06	5.819E-06	6.044E-06	6.197E-06	6.288E-06	5.993E-05
5.00E 00---6.50E 00	2.462E-04	2.570E-04	3.533E-04	4.287E-04	5.327E-04	6.750E-04	1.835E-03	4.293E-03	4.889E-03
4.00E 00---5.00E 00	2.058E-04	2.157E-04	3.031E-04	3.783E-04	5.810E-04	9.453E-04	1.744E-03	4.091E-03	4.351E-03
3.00E 00---4.00E 00	9.192E-05	9.404E-05	1.304E-04	1.540E-04	2.308E-04	3.500E-04	6.632E-04	1.342E-03	1.749E-03
2.50E 00---3.00E 00	6.166E-04	9.132E-04	1.002E-03	1.461E-03	1.953E-03	3.219E-03	5.709E-03	1.250E-02	1.492E-02
2.00E 00---2.50E 00	1.233E-03	1.272E-03	1.821E-03	2.222E-03	3.374E-03	5.343E-03	9.535E-03	2.117E-02	2.476E-02
1.66E 00---2.00E 00	5.592E-04	8.457E-04	9.481E-04	1.417E-03	1.985E-03	3.375E-03	6.007E-03	1.242E-02	1.454E-02
1.33E 00---1.66E 00	6.755E-04	1.020E-03	1.155E-03	1.755E-03	2.473E-03	4.124E-03	7.087E-03	1.405E-02	1.743E-02
1.00E 00---1.33E 00	3.231E-04	6.411E-04	6.411E-04	1.034E-03	1.598E-03	2.502E-03	3.755E-03	5.479E-03	8.971E-03
8.00E 01---1.00E 01	4.374E-04	6.522E-04	9.263E-04	1.433E-03	2.072E-03	2.926E-03	3.897E-03	4.986E-03	1.089E-02
6.00E 01---8.00E 01	7.027E-04	1.051E-03	1.457E-03	2.035E-03	2.661E-03	3.403E-03	4.192E-03	5.051E-03	1.436E-02
4.00E 01---6.00E 01	2.096E-03	2.693E-03	3.255E-03	3.913E-03	4.563E-03	5.407E-03	6.502E-03	7.997E-03	3.049E-02
3.00E 01---4.00E 01	3.819E-03	4.273E-03	4.645E-03	5.184E-03	5.822E-03	6.710E-03	7.757E-03	8.952E-03	4.672E-02
2.00E 01---3.00E 01	6.525E-03	6.586E-03	7.428E-03	8.181E-03	9.009E-03	1.017E-02	1.154E-02	1.323E-02	8.920E-02
1.00E 01---2.00E 01	1.688E-02	1.792E-02	1.911E-02	2.048E-02	2.199E-02	2.361E-02	2.522E-02	2.657E-02	2.818E-02
5.00E 02---1.00E 01	3.888E-02	4.041E-02	4.206E-02	4.381E-02	4.556E-02	4.722E-02	4.864E-02	4.957E-02	4.911E-01
2.00E 02---5.00E 02	1.037E-02	1.055E-02	1.074E-02	1.093E-02	1.111E-02	1.127E-02	1.140E-02	1.147E-02	1.301E-01



4 PI R\*2 FLUENCE AT 300.0 METERS

4.065 TO 6.36 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.5894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
3.00E 00---1.00E 01	3.119E-06	3.129E-06	3.167E-06	3.242E-06	3.353E-06	3.502E-06	3.691E-06	3.924E-06	4.202E-06
6.50E 00---8.00E 00	6.445E-06	6.445E-06	5.543E-06	6.696E-06	6.923E-06	7.227E-06	7.612E-06	8.085E-06	8.650E-06
5.00E 00---6.50E 00	1.328E-04	1.340E-04	1.383E-04	1.458E-04	1.548E-04	1.650E-04	1.773E-04	1.941E-04	2.179E-04
4.00E 00---5.00E 00	7.060E-05	7.261E-05	7.972E-05	9.037E-05	1.005E-04	1.087E-04	1.166E-04	1.281E-04	1.474E-04
3.00E 00---4.00E 00	4.237E-05	4.414E-05	5.025E-05	5.901E-05	6.840E-05	7.933E-05	7.399E-05	7.890E-05	8.874E-05
2.50E 00---3.00E 00	2.705E-04	2.743E-04	2.884E-04	3.109E-04	3.359E-04	3.626E-04	3.949E-04	4.412E-04	5.106E-04
2.00E 00---2.50E 00	4.148E-04	4.224E-04	4.493E-04	4.914E-04	5.343E-04	5.753E-04	6.229E-04	6.933E-04	8.038E-04
1.66E 00---2.00E 00	2.185E-04	2.237E-04	2.423E-04	2.697E-04	2.958E-04	3.190E-04	3.462E-04	3.895E-04	4.601E-04
1.33E 00---1.66E 00	3.194E-04	3.193E-04	3.200E-04	3.249E-04	3.394E-04	3.685E-04	4.153E-04	4.811E-04	5.679E-04
1.00E 00---1.33E 00	2.005E-04	1.920E-04	1.839E-04	1.707E-04	1.594E-04	1.411E-04	1.255E-04	1.072E-04	9.030E-04
8.00E 01---1.00E 01	2.062E-04	2.066E-04	1.831E-04	1.669E-04	1.725E-04	2.056E-04	2.584E-04	3.189E-04	3.908E-04
6.00E 01---8.00E 01	1.399E-04	1.512E-04	1.918E-04	2.516E-04	3.056E-04	3.444E-04	3.786E-04	4.200E-04	5.838E-04
4.00E 01---6.00E 01	7.635E-04	7.747E-04	8.155E-04	8.796E-04	9.564E-04	1.064E-03	1.245E-03	1.556E-03	2.031E-03
3.00E 01---4.00E 01	1.430E-03	1.428E-03	1.444E-03	1.545E-03	1.815E-03	2.287E-03	2.925E-03	3.632E-03	4.299E-03
2.00E 01---3.00E 01	6.710E-03	6.743E-03	6.864E-03	7.049E-03	7.232E-03	7.379E-03	7.490E-03	7.603E-03	7.781E-03
1.00E 01---2.00E 01	1.776E-02	1.780E-02	1.794E-02	1.820E-02	1.859E-02	1.913E-02	1.981E-02	2.068E-02	2.174E-02
5.00E 02---1.00E 01	4.783E-02	4.790E-02	4.821E-02	4.880E-02	4.964E-02	5.077E-02	5.219E-02	5.392E-02	5.595E-02
2.00E 02---5.00E 02	1.438E-02	1.439E-02	1.443E-02	1.451E-02	1.463E-02	1.478E-02	1.497E-02	1.520E-02	1.546E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	4.526E-06	4.893E-06	5.297E-06	5.720E-06	6.140E-06	6.521E-06	6.823E-06	7.003E-06	5.763E-05
6.50E 00---8.00E 00	9.307E-06	1.005E-05	1.087E-05	1.172E-05	1.257E-05	1.334E-05	1.394E-05	1.431E-05	1.184E-04
5.00E 00---6.50E 00	2.477E-04	3.012E-04	3.617E-04	4.699E-04	6.442E-04	9.182E-04	1.961E-03	5.194E-03	5.342E-03
4.00E 00---5.00E 00	1.738E-04	2.230E-04	2.765E-04	3.748E-04	5.415E-04	9.182E-04	1.872E-03	4.897E-03	4.375E-03
3.00E 00---4.00E 00	1.029E-04	1.267E-04	1.503E-04	1.927E-04	2.890E-04	4.438E-04	8.439E-04	1.842E-03	2.185E-03
2.50E 00---3.00E 00	6.285E-04	7.391E-04	9.733E-04	1.275E-03	1.870E-03	3.009E-03	5.789E-03	1.405E-02	1.424E-02
2.00E 00---2.50E 00	9.422E-04	1.219E-03	1.508E-03	2.065E-03	2.975E-03	4.932E-03	9.523E-03	2.300E-02	2.291E-02
1.66E 00---2.00E 00	5.817E-04	8.964E-04	9.386E-04	1.279E-03	1.989E-03	3.382E-03	6.499E-03	1.428E-02	1.444E-02
1.33E 00---1.66E 00	7.055E-04	8.374E-04	1.151E-03	1.618E-03	2.540E-03	4.200E-03	7.619E-03	1.569E-02	1.736E-02
1.00E 00---1.33E 00	3.748E-04	4.930E-04	7.544E-04	1.250E-03	2.065E-03	3.284E-03	5.077E-03	7.623E-03	1.111E-02
8.00E 01---1.00E 01	5.136E-04	7.339E-04	1.161E-03	1.823E-03	3.905E-03	5.250E-03	9.520E-03	6.760E-03	1.374E-02
6.50E 01---8.00E 01	8.598E-04	1.287E-03	1.906E-03	2.668E-03	3.559E-03	4.520E-03	5.561E-03	6.688E-03	1.826E-02
4.00E 01---6.00E 01	2.674E-03	3.408E-03	4.205E-03	4.988E-03	5.818E-03	6.799E-03	8.157E-03	1.002E-02	3.803E-02
3.00E 01---4.00E 01	4.871E-03	5.338E-03	5.840E-03	6.458E-03	7.310E-03	8.349E-03	9.664E-03	1.104E-02	5.830E-02
2.00E 01---3.00E 01	8.102E-03	8.550E-03	9.240E-03	1.008E-02	1.117E-02	1.245E-02	1.402E-02	1.579E-02	1.097E-01
1.00E 01---2.00E 01	2.303E-02	2.455E-02	2.631E-02	2.831E-02	3.051E-02	3.203E-02	3.511E-02	3.696E-02	2.978E-01
5.00E 02---1.00E 01	5.830E-02	6.094E-02	6.383E-02	6.688E-02	6.998E-02	7.321E-02	7.540E-02	7.705E-02	7.378E-01
2.00E 02---5.00E 02	1.575E-02	1.606E-02	1.639E-02	1.672E-02	1.703E-02	1.730E-02	1.751E-02	1.764E-02	1.977E-01

## 4.065 TO 6.36 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*2 FLUENCE AT 400.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.5894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	4.170E-06	4.185E-06	4.248E-06	4.370E-06	4.551E-06	4.749E-06	5.119E-06	5.522E-06	6.020E-06
9.50E 00---8.00E 00	8.622E-06	8.654E-06	8.781E-06	9.031E-06	9.403E-06	9.907E-06	1.036E-05	1.138E-05	1.239E-05
5.00E 00---6.50E 00	1.413E-04	1.439E-04	1.463E-04	1.545E-04	1.642E-04	1.748E-04	1.876E-04	2.050E-04	2.299E-04
4.00E 00---5.00E 00	5.941E-05	6.169E-05	6.566E-05	8.117E-05	9.117E-05	9.801E-05	1.037E-04	1.129E-04	1.305E-04
3.00E 00---4.00E 00	4.775E-05	4.989E-05	5.730E-05	6.766E-05	7.596E-05	8.052E-05	8.328E-05	8.857E-05	1.002E-04
2.50E 00---3.00E 00	2.052E-04	2.091E-04	2.231E-04	2.444E-04	2.659E-04	2.866E-04	3.109E-04	3.475E-04	4.056E-04
2.00E 00---2.50E 00	3.095E-04	3.168E-04	3.430E-04	3.813E-04	4.171E-04	4.674E-04	4.813E-04	5.357E-04	6.271E-04
1.66E 00---2.00E 00	1.674E-04	1.724E-04	1.900E-04	2.149E-04	2.366E-04	2.538E-04	2.740E-04	3.099E-04	3.717E-04
1.33E 00---1.66E 00	2.577E-04	2.568E-04	2.545E-04	2.552E-04	2.652E-04	2.900E-04	3.318E-04	3.900E-04	4.642E-04
1.00E 00---1.33E 00	1.876E-04	1.783E-04	1.476E-04	1.122E-04	1.015E-04	1.264E-04	1.781E-04	2.356E-04	2.860E-04
8.00E-01---1.00E 00	1.889E-04	1.830E-04	1.646E-04	1.483E-04	1.556E-04	1.912E-04	2.477E-04	3.028E-04	3.707E-04
6.00E-01---8.00E-01	1.194E-04	1.316E-04	1.753E-04	2.378E-04	2.908E-04	3.250E-04	3.536E-04	4.165E-04	5.709E-04
4.00E-01---6.00E-01	7.551E-04	7.644E-04	8.078E-04	8.718E-04	9.487E-04	1.061E-03	1.259E-03	1.604E-03	2.133E-03
3.00E-01---4.00E-01	1.407E-03	1.406E-03	1.427E-03	1.547E-03	1.853E-03	2.378E-03	3.075E-03	3.830E-03	4.522E-03
2.00E-01---3.00E-01	6.944E-03	6.979E-03	7.106E-03	7.298E-03	7.481E-03	7.623E-03	7.725E-03	7.831E-03	8.011E-03
1.00E-01---2.00E-01	1.919E-02	1.923E-02	1.939E-02	1.969E-02	2.013E-02	2.073E-02	2.151E-02	2.248E-02	2.368E-02
5.00E-02---1.00E-01	5.463E-02	5.473E-02	5.510E-02	5.582E-02	5.685E-02	5.824E-02	5.998E-02	6.210E-02	6.461E-02
2.00E-02---5.00E-02	1.669E-02	1.670E-02	1.675E-02	1.685E-02	1.700E-02	1.718E-02	1.742E-02	1.769E-02	1.801E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	6.621E-05	7.331E-05	8.147E-05	9.648E-05	9.987E-05	1.089E-05	1.133E-05	1.210E-05	8.640E-05
6.50E 00---8.00E 00	1.361E-05	1.504E-05	1.669E-05	1.851E-05	2.040E-05	2.220E-05	2.370E-05	2.463E-05	1.773E-04
5.00E 00---6.50E 00	2.650E-04	3.121E-04	3.781E-04	4.760E-04	6.447E-04	9.893E-04	1.903E-03	5.365E-03	5.454E-03
4.00E 00---5.00E 00	1.590E-04	1.977E-04	2.511E-04	3.322E-04	4.869E-04	8.332E-04	1.764E-03	5.001E-03	4.063E-03
3.00E 00---4.00E 00	1.189E-04	1.424E-04	1.708E-04	2.122E-04	2.960E-04	4.870E-04	9.386E-04	2.099E-03	2.450E-03
2.50E 00---3.00E 00	4.904E-04	6.138E-04	7.859E-04	1.066E-03	1.572E-03	2.616E-03	5.159E-03	1.336E-02	1.218E-02
2.00E 00---2.50E 00	7.671E-04	9.552E-04	1.230E-03	1.664E-03	2.479E-03	4.183E-03	8.331E-03	2.126E-02	1.524E-02
1.66E 00---2.00E 00	4.621E-04	5.917E-04	7.770E-04	1.107E-03	1.759E-03	3.121E-03	6.119E-03	1.380E-02	1.283E-02
1.33E 00---1.66E 00	5.598E-04	7.095E-04	9.595E-04	1.429E-03	2.298E-03	3.924E-03	7.143E-03	1.478E-02	1.543E-02
1.00E 00---1.33E 00	3.458E-04	4.733E-04	7.556E-04	1.297E-03	2.189E-03	3.528E-03	5.460E-03	8.240E-03	1.150E-02
8.00E-01---1.00E 00	4.897E-04	7.389E-04	1.204E-03	1.949E-03	2.975E-03	4.857E-03	5.898E-03	7.185E-03	1.436E-02
6.00E-01---8.00E-01	8.731E-04	1.363E-03	2.044E-03	2.890E-03	3.845E-03	4.857E-03	5.632E-03	6.994E-03	1.921E-02
4.00E-01---6.00E-01	2.831E-03	3.638E-03	4.467E-03	5.272E-03	6.086E-03	7.046E-03	8.343E-03	1.009E-02	3.964E-02
3.00E-01---4.00E-01	5.086E-03	5.557E-03	6.043E-03	6.679E-03	7.540E-03	8.614E-03	9.811E-03	1.101E-02	6.036E-02
2.00E-01---3.00E-01	8.328E-03	8.830E-03	9.515E-03	1.039E-02	1.143E-02	1.265E-02	1.404E-02	1.550E-02	1.127E-01
1.00E-01---2.00E-01	2.512E-02	2.683E-02	2.879E-02	3.101E-02	3.341E-02	3.590E-02	3.826E-02	4.010E-02	3.246E-01
5.00E-02---1.00E-01	6.751E-02	7.078E-02	7.436E-02	7.814E-02	8.194E-02	8.556E-02	8.858E-02	9.056E-02	8.549E-01
2.00E-02---5.00E-02	1.837E-02	1.875E-02	1.915E-02	1.955E-02	1.992E-02	2.025E-02	2.050E-02	2.065E-02	2.306E-01

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9854	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	4.754E-06	4.774E-06	4.856E-06	5.015E-06	5.254E-06	5.582E-06	6.015E-06	6.572E-06	7.277E-06
5.00E 00--6.50E 00	9.835E-06	9.876E-06	1.004E-05	1.037E-05	1.086E-05	1.153E-05	1.241E-05	1.354E-05	1.497E-05
3.50E 00--5.00E 00	1.396E-04	1.410E-04	1.462E-04	1.546E-04	1.647E-04	1.755E-04	1.886E-04	2.067E-04	2.325E-04
2.00E 00--3.50E 00	4.931E-05	5.164E-05	5.977E-05	7.119E-05	8.048E-05	8.597E-05	8.993E-05	9.744E-05	1.133E-04
1.50E 00--2.00E 00	4.987E-05	5.217E-05	6.012E-05	7.109E-05	7.959E-05	8.400E-05	8.666E-05	9.249E-05	1.056E-04
1.00E 00--1.50E 00	1.484E-04	1.520E-04	1.643E-04	1.837E-04	2.013E-04	2.163E-04	2.335E-04	2.612E-04	3.079E-04
0.50E 00--1.00E 00	2.214E-04	2.279E-04	2.509E-04	2.833E-04	3.113E-04	3.325E-04	3.554E-04	3.961E-04	4.687E-04
0.25E 00--0.50E 00	1.246E-04	1.289E-04	1.439E-04	1.644E-04	1.811E-04	1.934E-04	2.084E-04	2.376E-04	2.894E-04
0.125E 00--0.25E 00	2.007E-04	1.933E-04	1.951E-04	1.924E-04	1.988E-04	2.194E-04	2.555E-04	3.046E-04	3.649E-04
0.0625E 00--0.125E 00	1.639E-04	1.550E-04	1.253E-04	9.184E-05	8.322E-05	1.086E-04	1.581E-04	2.102E-04	2.522E-04
0.03125E 00--0.0625E 00	1.617E-04	1.562E-04	1.395E-04	1.258E-04	1.345E-04	1.688E-04	2.178E-04	2.689E-04	3.291E-04
0.015625E 00--0.03125E 00	9.785E-05	1.097E-04	1.522E-04	2.117E-04	2.566E-04	2.879E-04	3.110E-04	3.707E-04	5.248E-04
0.0078125E 00--0.015625E 00	7.073E-04	7.177E-04	7.556E-04	8.143E-04	8.844E-04	9.966E-04	1.195E-03	1.540E-03	2.065E-03
0.00390625E 00--0.0078125E 00	1.297E-03	1.298E-03	1.325E-03	1.451E-03	1.761E-03	2.280E-03	2.956E-03	3.675E-03	4.318E-03
0.001953125E 00--0.00390625E 00	6.820E-03	6.820E-03	6.738E-03	6.913E-03	7.076E-03	7.197E-03	7.279E-03	7.368E-03	7.532E-03
0.0009765625E 00--0.001953125E 00	1.858E-02	1.862E-02	1.878E-02	1.908E-02	1.952E-02	2.011E-02	2.087E-02	2.184E-02	2.301E-02
0.00048828125E 00--0.0009765625E 00	5.478E-02	5.487E-02	5.527E-02	5.601E-02	5.709E-02	5.852E-02	6.033E-02	6.254E-02	6.516E-02
0.000244140625E 00--0.00048828125E 00	1.688E-02	1.690E-02	1.693E-02	1.706E-02	1.720E-02	1.740E-02	1.764E-02	1.792E-02	1.825E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.099E-04
6.50E 00--8.00E 00	8.156E-06	9.234E-06	1.053E-05	1.202E-05	1.367E-05	1.532E-05	1.677E-05	1.772E-05	2.252E-04
5.00E 00--6.50E 00	1.675E-05	1.893E-05	2.154E-05	2.454E-05	2.784E-05	3.115E-05	3.404E-05	3.593E-05	5.352E-03
3.50E 00--5.00E 00	2.686E-04	3.170E-04	3.819E-04	4.759E-04	6.323E-04	9.465E-04	1.778E-03	5.139E-03	3.630E-03
2.00E 00--3.50E 00	1.395E-04	1.751E-04	2.211E-04	2.903E-04	4.242E-04	7.344E-04	1.583E-03	4.708E-03	2.569E-03
1.50E 00--2.00E 00	1.266E-04	1.526E-04	1.823E-04	2.246E-04	3.098E-04	5.070E-04	9.730E-04	2.177E-03	9.890E-03
1.00E 00--1.50E 00	3.782E-04	4.759E-04	6.149E-04	8.397E-04	1.263E-03	2.157E-03	4.354E-03	1.169E-02	1.535E-02
0.50E 00--1.00E 00	5.796E-04	7.317E-04	9.441E-04	1.291E-03	1.900E-03	3.398E-03	6.900E-03	1.810E-02	1.082E-02
0.25E 00--0.50E 00	3.661E-04	4.702E-04	6.252E-04	9.069E-04	1.488E-03	2.718E-03	5.403E-03	1.221E-02	1.301E-02
0.125E 00--0.25E 00	4.423E-04	5.613E-04	7.779E-04	1.194E-03	1.983E-03	3.450E-03	6.277E-03	1.278E-02	1.081E-02
0.0625E 00--0.125E 00	3.029E-04	4.209E-04	6.969E-04	1.230E-03	2.105E-03	3.400E-03	5.232E-03	7.828E-03	1.362E-02
0.03125E 00--0.0625E 00	4.425E-04	6.873E-04	1.151E-03	1.887E-03	2.899E-03	4.082E-03	5.377E-03	6.748E-03	1.831E-02
0.015625E 00--0.03125E 00	8.291E-04	1.318E-03	1.991E-03	2.812E-03	3.722E-03	4.657E-03	5.788E-03	6.496E-03	3.769E-02
0.0078125E 00--0.015625E 00	2.749E-03	3.523E-03	4.301E-03	5.035E-03	5.760E-03	6.600E-03	7.716E-03	9.159E-03	5.683E-02
0.00390625E 00--0.0078125E 00	4.827E-03	5.242E-03	5.679E-03	6.262E-03	7.051E-03	8.005E-03	9.007E-03	9.918E-03	1.055E-01
0.001953125E 00--0.00390625E 00	7.830E-03	8.294E-03	8.928E-03	9.714E-03	1.063E-02	1.167E-02	1.279E-02	1.388E-02	3.149E-01
0.0009765625E 00--0.001953125E 00	2.442E-02	2.608E-02	2.799E-02	3.011E-02	3.259E-02	3.470E-02	3.683E-02	3.841E-02	9.181E-01
0.00048828125E 00--0.0009765625E 00	6.817E-02	7.157E-02	7.528E-02	7.919E-02	8.312E-02	8.680E-02	8.985E-02	9.181E-02	2.336E-01
0.000244140625E 00--0.00048828125E 00	1.862E-02	1.901E-02	1.942E-02	1.983E-02	2.021E-02	2.054E-02	2.080E-02	2.095E-02	

## 4.065 TO 6.36 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 600.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	4.869E-06	4.851E-06	4.983E-06	5.165E-06	5.437E-06	5.813E-06	6.317E-06	6.977E-06	7.832E-06
6.50E 00---8.00E 00	1.070E-05	1.012E-05	1.031E-05	1.069E-05	1.124E-05	1.201E-05	1.304E-05	1.438E-05	1.611E-05
5.00E 00---6.50E 00	1.320E-04	1.234E-04	1.386E-04	1.470E-04	1.566E-04	1.673E-04	1.803E-04	1.944E-04	2.247E-04
4.00E 00---5.00E 00	4.035E-05	4.259E-05	5.033E-05	6.113E-05	6.943E-05	7.376E-05	8.270E-05	9.071E-05	1.049E-04
3.00E 00---4.00E 00	4.853E-05	5.081E-05	5.874E-05	6.954E-05	7.771E-05	8.182E-05	8.444E-05	9.071E-05	1.049E-04
2.50E 00---3.00E 00	1.041E-04	1.073E-04	1.186E-04	1.346E-04	1.484E-04	1.590E-04	1.706E-04	1.913E-04	2.281E-04
2.00E 00---2.50E 00	1.545E-04	1.599E-04	1.795E-04	2.051E-04	2.262E-04	2.405E-04	2.557E-04	2.858E-04	3.424E-04
1.66E 00---2.00E 00	9.165E-05	9.505E-05	1.063E-04	1.227E-04	1.350E-04	1.438E-04	1.553E-04	1.790E-04	2.214E-04
1.33E 00---1.66E 00	1.535E-04	1.518E-04	1.463E-04	1.416E-04	1.355E-04	1.286E-04	1.231E-04	1.237E-04	2.812E-04
1.00E 00---1.33E 00	1.374E-04	1.294E-04	1.027E-04	7.325E-05	6.688E-05	9.097E-05	1.356E-04	1.803E-04	2.142E-04
8.00E 01---1.00E 01	1.326E-04	1.281E-04	1.144E-04	1.040E-04	1.443E-04	1.443E-04	1.868E-04	2.299E-04	2.822E-04
6.00E 01---8.00E 01	7.811E-05	8.904E-05	1.280E-04	1.816E-04	2.331E-04	2.459E-04	2.648E-04	3.203E-04	4.665E-04
4.00E 01---6.00E 01	6.402E-04	6.451E-04	6.819E-04	7.334E-04	7.989E-04	9.030E-04	1.091E-03	1.416E-03	1.903E-03
3.00E 01---4.00E 01	1.151E-03	1.153E-03	1.184E-03	1.310E-03	1.603E-03	2.082E-03	2.694E-03	3.534E-03	5.892E-03
2.00E 01---3.00E 01	5.935E-03	5.963E-03	6.212E-03	6.212E-03	6.346E-03	6.441E-03	6.501E-03	6.571E-03	6.710E-03
1.00E 01---2.00E 01	1.687E-02	1.691E-02	1.705E-02	1.733E-02	1.773E-02	1.827E-02	1.897E-02	1.985E-02	2.091E-02
5.00E 02---1.00E 01	5.083E-02	5.091E-02	5.129E-02	5.199E-02	5.300E-02	5.436E-02	5.607E-02	5.815E-02	6.041E-02
2.00E 02---5.00E 02	1.574E-02	1.577E-02	1.589E-02	1.590E-02	1.604E-02	1.622E-02	1.644E-02	1.671E-02	1.702E-02
ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	8.930E-06	1.032E-05	1.206E-05	1.417E-05	1.660E-05	1.918E-05	2.156E-05	2.319E-05	1.231E-04
6.50E 00---8.00E 00	1.833E-05	2.114E-05	2.464E-05	2.886E-05	3.371E-05	3.885E-05	4.357E-05	4.800E-05	2.538E-04
5.00E 00---6.50E 00	2.613E-04	3.100E-04	3.743E-04	4.654E-04	6.115E-04	8.955E-04	1.632E-03	4.720E-03	5.092E-03
4.00E 00---5.00E 00	1.212E-04	1.533E-04	1.931E-04	2.516E-04	3.663E-04	6.378E-04	1.387E-03	4.233E-03	3.174E-03
3.00E 00---4.00E 00	1.272E-04	1.546E-04	1.854E-04	2.282E-04	3.133E-04	5.089E-04	9.658E-04	2.134E-03	2.562E-03
2.50E 00---3.00E 00	2.843E-04	3.612E-04	4.691E-04	6.456E-04	9.880E-04	1.730E-03	3.561E-03	9.756E-03	7.807E-03
2.00E 00---2.50E 00	4.293E-04	5.463E-04	7.080E-04	9.761E-04	1.311E-03	2.687E-03	5.542E-03	1.470E-02	1.190E-02
1.66E 00---2.00E 00	2.834E-04	3.666E-04	4.917E-04	7.269E-04	1.225E-03	2.289E-03	4.582E-03	1.026E-02	8.841E-03
1.33E 00---1.66E 00	3.410E-04	4.358E-04	6.170E-04	9.762E-04	1.662E-03	2.926E-03	5.296E-03	1.052E-02	1.044E-02
1.00E 00---1.33E 00	2.561E-04	3.625E-04	6.175E-04	1.110E-03	1.910E-03	3.072E-03	4.677E-03	6.892E-03	9.607E-03
8.00E 01---1.00E 01	3.862E-04	6.149E-04	1.042E-03	1.725E-03	2.631E-03	3.685E-03	4.787E-03	5.893E-03	1.219E-02
6.00E 01---8.00E 01	7.534E-04	1.209E-03	1.826E-03	2.567E-03	3.369E-03	4.170E-03	4.927E-03	5.536E-03	1.644E-02
4.00E 01---6.00E 01	2.527E-03	3.221E-03	3.903E-03	4.530E-03	5.135E-03	5.830E-03	6.736E-03	7.849E-03	3.393E-02
3.00E 01---4.00E 01	4.324E-03	4.672E-03	5.048E-03	5.548E-03	6.226E-03	7.022E-03	7.809E-03	8.459E-03	5.063E-02
2.00E 01---3.00E 01	6.970E-03	7.376E-03	7.922E-03	8.587E-03	9.349E-03	1.019E-02	1.105E-02	1.182E-02	9.356E-02
1.00E 01---2.00E 01	2.219E-02	2.368E-02	2.538E-02	2.726E-02	2.925E-02	3.123E-02	3.301E-02	3.427E-02	2.853E-01
5.00E 02---1.00E 01	6.544E-02	6.662E-02	7.009E-02	7.373E-02	7.737E-02	8.075E-02	8.352E-02	8.528E-02	8.027E-01
2.00E 02---5.00E 02	1.736E-02	1.773E-02	1.811E-02	1.848E-02	1.884E-02	1.914E-02	1.937E-02	1.951E-02	2.178E-01

## 4.065 TO 6.36 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 900.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	3.487E-06	3.507E-06	3.591E-06	3.722E-06	3.991E-06	4.326E-06	4.787E-06	5.419E-06	6.286E-06
5.00E 00---6.50E 00	7.205E-06	7.249E-06	7.429E-06	7.717E-06	8.266E-06	8.950E-06	9.884E-06	1.115E-05	1.292E-05
4.00E 00---5.00E 00	8.490E-05	8.594E-05	8.985E-05	9.606E-05	1.030E-04	1.108E-04	1.205E-04	1.348E-04	1.562E-04
3.00E 00---4.00E 00	1.916E-05	2.079E-05	2.645E-05	3.389E-05	3.897E-05	4.078E-05	4.136E-05	4.489E-05	5.491E-05
2.50E 00---3.00E 00	3.164E-05	3.339E-05	3.948E-05	4.751E-05	5.317E-05	5.571E-05	5.71E-05	6.305E-05	7.583E-05
2.00E 00---2.50E 00	3.186E-05	3.375E-05	4.033E-05	4.84E-05	5.502E-05	5.809E-05	6.116E-05	6.947E-05	8.704E-05
1.66E 00---2.00E 00	4.858E-05	5.113E-05	6.002E-05	7.148E-05	7.938E-05	8.340E-05	8.790E-05	1.003E-04	1.257E-04
1.33E 00---1.66E 00	3.622E-05	3.739E-05	4.149E-05	4.679E-05	5.090E-05	5.461E-05	6.094E-05	7.378E-05	9.521E-05
1.00E 00---1.33E 00	6.575E-05	6.392E-05	7.955E-05	5.181E-05	5.216E-05	6.176E-05	7.938E-05	1.006E-04	1.222E-04
8.00E-01---1.00E 00	6.991E-05	6.517E-05	4.955E-05	3.324E-05	3.155E-05	4.764E-05	7.435E-05	9.872E-05	1.159E-04
6.00E-01---8.00E-01	6.163E-05	5.982E-05	5.470E-05	5.258E-05	6.080E-05	7.903E-05	1.019E-04	1.259E-04	1.602E-04
4.00E-01---6.00E-01	3.380E-05	4.087E-05	6.597E-05	9.896E-05	1.225E-04	1.342E-04	1.463E-04	1.879E-04	2.938E-04
3.00E-01---4.00E-01	4.094E-04	4.141E-04	4.322E-04	4.628E-04	5.078E-04	5.844E-04	7.201E-04	9.414E-04	1.255E-03
2.00E-01---3.00E-01	7.009E-04	7.061E-04	7.396E-04	8.389E-04	1.039E-03	1.343E-03	1.712E-03	2.079E-03	2.382E-03
1.00E-01---2.00E-01	3.689E-03	3.703E-03	3.752E-03	3.820E-03	3.874E-03	3.904E-03	3.916E-03	3.940E-03	4.011E-03
5.00E-02---1.00E-01	1.037E-02	1.039E-02	1.048E-02	1.065E-02	1.090E-02	1.124E-02	1.166E-02	1.218E-02	1.232E-02
2.00E-02---5.00E-02	3.202E-02	3.207E-02	3.231E-02	3.275E-02	3.329E-02	3.425E-02	3.532E-02	3.662E-02	3.814E-02
	9.926E-03	9.934E-03	9.966E-03	1.003E-02	1.011E-02	1.022E-02	1.036E-02	1.053E-02	1.072E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.218E-04
6.50E 00---8.00E 00	7.479E-06	9.128E-06	1.141E-05	1.455E-05	1.874E-05	2.395E-05	2.958E-05	3.405E-05	1.218E-04
5.00E 00---6.50E 00	1.533E-05	1.865E-05	2.321E-05	2.945E-05	3.773E-05	4.797E-05	5.896E-05	6.762E-05	2.472E-04
4.00E 00---5.00E 00	1.868E-04	2.285E-04	2.848E-04	3.642E-04	4.861E-04	7.000E-04	1.188E-03	3.219E-03	3.703E-03
3.00E 00---4.00E 00	7.202E-05	9.410E-05	1.501E-04	1.571E-04	2.306E-04	4.058E-04	8.771E-04	2.678E-03	1.956E-03
2.50E 00---3.00E 00	9.598E-05	1.209E-04	1.695E-04	1.903E-04	2.686E-04	4.376E-04	8.035E-04	1.667E-03	2.029E-03
2.00E 00---2.50E 00	1.145E-04	1.505E-04	2.839E-04	2.822E-04	4.556E-04	8.468E-04	1.798E-03	4.931E-03	5.170E-03
1.66E 00---2.00E 00	1.646E-04	2.150E-04	2.839E-04	4.054E-04	6.600E-04	1.254E-03	2.638E-03	6.846E-03	5.170E-03
1.33E 00---1.66E 00	1.251E-04	1.656E-04	2.313E-04	3.638E-04	6.493E-04	1.246E-03	2.461E-03	5.181E-03	4.431E-03
1.00E 00---1.33E 00	1.485E-04	1.966E-04	3.001E-04	5.119E-04	9.072E-04	1.599E-03	2.789E-03	5.055E-03	5.331E-03
8.00E-01---1.00E 00	1.413E-04	2.137E-04	3.852E-04	7.028E-04	1.191E-03	1.854E-03	2.691E-03	3.724E-03	5.663E-03
6.00E-01---8.00E-01	2.343E-04	3.921E-04	6.746E-04	1.096E-03	1.624E-03	2.191E-03	2.716E-03	3.156E-03	7.287E-03
4.00E-01---6.00E-01	4.908E-04	7.865E-04	1.165E-03	1.592E-03	2.024E-03	2.421E-03	2.756E-03	3.016E-03	9.881E-03
3.00E-01---4.00E-01	1.638E-03	2.041E-03	2.415E-03	2.737E-03	3.035E-03	3.370E-03	3.786E-03	4.229E-03	2.083E-02
2.00E-01---3.00E-01	2.603E-03	2.777E-03	2.973E-03	3.249E-03	3.608E-03	3.993E-03	4.321E-03	4.528E-03	3.020E-02
1.00E-01---2.00E-01	4.153E-03	4.375E-03	4.665E-03	5.003E-03	5.370E-03	5.750E-03	6.111E-03	6.383E-03	5.529E-02
5.00E-02---1.00E-01	1.356E-02	1.442E-02	1.537E-02	1.640E-02	1.746E-02	1.847E-02	1.932E-02	1.988E-02	1.731E-01
2.00E-02---5.00E-02	3.988E-02	4.182E-02	4.390E-02	4.606E-02	4.817E-02	5.010E-02	5.163E-02	5.257E-02	5.032E-01
	1.092E-02	1.114E-02	1.137E-02	1.159E-02	1.179E-02	1.197E-02	1.210E-02	1.218E-02	1.369E-01

4.065 TO 6.36 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 1200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
8.00E 00--1.00E 01	1.724E-06	1.737E-06	1.789E-06	1.885E-06	2.021E-06	2.209E-06	2.469E-06	2.840E-06	3.376E-06
6.50E 00--8.00E 00	3.541E-06	3.572E-06	3.915E-06	3.912E-06	4.200E-06	4.577E-06	5.096E-06	5.843E-06	6.929E-06
5.00E 00--6.50E 00	4.012E-05	4.076E-05	4.311E-05	4.671E-05	5.046E-05	5.440E-05	5.946E-05	6.728E-05	7.973E-05
4.00E 00--5.00E 00	6.569E-06	7.607E-06	1.118E-05	1.566E-05	1.834E-05	1.874E-05	1.829E-05	1.985E-05	2.566E-05
3.00E 00--4.00E 00	1.386E-05	1.459E-05	1.885E-05	2.375E-05	2.684E-05	2.774E-05	2.819E-05	3.130E-05	3.935E-05
2.50E 00--3.00E 00	8.065E-06	9.072E-06	1.253E-05	1.678E-05	1.926E-05	1.979E-05	2.020E-05	2.348E-05	3.165E-05
2.00E 00--2.50E 00	1.451E-05	1.551E-05	1.894E-05	2.315E-05	2.574E-05	2.681E-05	2.838E-05	3.362E-05	4.449E-05
1.66E 00--2.00E 00	1.490E-05	1.501E-05	1.543E-05	1.605E-05	1.700E-05	1.896E-05	2.286E-05	2.947E-05	3.900E-05
1.33E 00--1.66E 00	2.783E-05	2.644E-05	2.181E-05	1.692E-05	1.642E-05	2.170E-05	3.122E-05	4.138E-05	5.023E-05
1.00E 00--1.33E 00	3.123E-05	2.879E-05	2.077E-05	1.275E-05	1.255E-05	2.127E-05	3.477E-05	4.636E-05	5.491E-05
8.00E 01--1.00E 00	2.325E-05	2.284E-05	2.198E-05	2.301E-05	2.812E-05	3.575E-05	4.708E-05	5.952E-05	8.167E-05
6.00E 01--8.00E 00	9.823E-06	1.383E-05	2.797E-05	4.580E-05	5.758E-05	6.300E-05	7.068E-05	9.856E-05	1.655E-04
4.00E 01--6.00E 00	2.211E-04	2.231E-04	2.316E-04	2.478E-04	2.753E-04	3.244E-04	4.087E-04	5.398E-04	7.133E-04
3.00E 01--4.00E 00	3.679E-04	3.730E-04	3.997E-04	4.658E-04	5.845E-04	7.535E-04	9.480E-04	1.132E-03	1.276E-03
2.00E 01--3.00E 00	2.025E-03	2.031E-03	2.050E-03	2.073E-03	2.086E-03	2.087E-03	2.080E-03	2.082E-03	2.112E-03
1.00E 01--2.00E 00	5.524E-03	5.536E-03	5.585E-03	5.677E-03	5.810E-03	5.986E-03	6.208E-03	6.480E-03	6.805E-03
5.00E 02--1.00E 01	1.712E-02	1.715E-02	1.728E-02	1.751E-02	1.785E-02	1.830E-02	1.866E-02	1.933E-02	2.032E-02
2.00E 02--5.00E 02	5.288E-03	5.292E-03	5.309E-03	5.340E-03	5.384E-03	5.443E-03	5.514E-03	5.599E-03	5.694E-03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
8.00E 00--1.00E 01	4.154E-06	5.302E-06	7.035E-06	9.704E-06	1.380E-05	1.976E-05	2.735E-05	3.440E-05	8.249E-05
6.50E 00--8.00E 00	8.506E-06	1.081E-05	1.424E-05	1.950E-05	2.750E-05	3.907E-05	5.363E-05	6.693E-05	1.656E-04
5.00E 00--6.50E 00	9.826E-05	1.244E-04	1.615E-04	2.173E-04	3.077E-04	4.651E-04	7.873E-04	1.987E-03	2.179E-03
4.00E 00--5.00E 00	3.585E-05	4.877E-05	6.382E-05	8.648E-05	1.344E-04	2.475E-04	5.312E-04	1.540E-03	1.091E-03
3.00E 00--4.00E 00	5.226E-05	6.831E-05	8.770E-05	1.179E-04	1.790E-04	3.077E-04	5.667E-04	1.113E-03	1.264E-03
2.50E 00--3.00E 00	4.450E-05	6.056E-05	8.349E-05	1.250E-04	2.167E-04	4.222E-04	8.914E-04	2.299E-03	1.628E-03
2.00E 00--2.50E 00	6.078E-05	8.205E-05	1.132E-04	1.730E-04	3.039E-04	5.901E-04	1.218E-03	2.934E-03	2.208E-03
1.66E 00--2.00E 00	5.196E-05	7.161E-05	1.083E-04	1.848E-04	3.421E-04	6.480E-04	1.220E-03	2.353E-03	2.121E-03
1.33E 00--1.66E 00	6.152E-05	8.720E-05	1.472E-04	2.676E-04	4.788E-04	8.193E-04	1.349E-03	2.214E-03	2.548E-03
1.00E 00--1.33E 00	7.107E-05	1.174E-04	2.207E-04	4.001E-04	6.572E-04	9.770E-04	1.339E-03	1.729E-03	2.953E-03
8.00E 01--1.00E 00	1.301E-04	2.263E-04	3.664E-04	6.096E-04	8.709E-04	1.127E-03	1.335E-03	1.475E-03	3.826E-03
6.00E 01--8.00E 00	2.826E-04	4.480E-04	6.463E-04	8.948E-04	1.051E-03	1.218E-03	1.347E-03	1.434E-03	3.193E-03
4.00E 01--6.00E 00	9.155E-04	1.118E-03	1.296E-03	1.443E-03	1.575E-03	1.724E-03	1.904E-03	2.075E-03	1.117E-02
3.00E 01--4.00E 00	1.375E-03	1.453E-03	1.547E-03	1.682E-03	1.852E-03	2.022E-03	2.150E-03	2.215E-03	1.590E-02
2.00E 01--3.00E 00	2.180E-03	2.283E-03	2.425E-03	2.581E-03	2.746E-03	2.908E-03	3.057E-03	3.161E-03	2.894E-02
1.00E 01--2.00E 00	7.183E-03	7.610E-03	8.080E-03	8.576E-03	9.075E-03	9.534E-03	9.911E-03	1.015E-02	9.118E-02
5.00E 02--1.00E 01	2.121E-02	2.218E-02	2.323E-02	2.429E-02	2.531E-02	2.631E-02	2.695E-02	2.738E-02	2.669E-01
2.00E 02--5.00E 02	5.799E-03	5.909E-03	6.022E-03	6.131E-03	6.231E-03	6.316E-03	6.380E-03	6.417E-03	7.266E-02

4.065 TO 6.36 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	6.786E-07	6.861E-07	7.155E-07	7.647E-07	8.264E-07	9.051E-07	1.014E-06	1.178E-06	1.429E-06
5.00E 00---6.50E 00	1.370E-06	1.391E-06	1.470E-06	1.593E-06	1.728E-06	1.882E-06	2.089E-06	2.414E-06	2.927E-06
4.00E 00---5.00E 00	1.524E-05	1.560E-05	1.689E-05	1.875E-05	2.044E-05	2.196E-05	2.386E-05	2.718E-05	3.294E-05
3.00E 00---4.00E 00	1.033E-06	1.082E-06	1.206E-06	1.359E-06	1.515E-06	1.636E-06	1.715E-06	1.816E-06	1.948E-06
2.50E 00---3.00E 00	4.179E-06	4.847E-06	5.622E-06	6.366E-06	7.136E-06	7.922E-06	8.723E-06	9.545E-06	1.039E-05
2.00E 00---2.50E 00	4.351E-06	4.680E-06	5.800E-06	7.105E-06	8.615E-06	1.022E-05	1.192E-05	1.374E-05	1.568E-05
1.66E 00---2.00E 00	6.596E-06	6.379E-06	8.020E-06	9.855E-06	1.183E-05	1.386E-05	1.592E-05	1.800E-05	2.019E-05
1.33E 00---1.66E 00	1.211E-05	1.118E-05	1.402E-05	1.733E-05	2.113E-05	2.542E-05	2.999E-05	3.474E-05	3.967E-05
1.00E 00---1.33E 00	1.313E-05	1.188E-05	1.503E-05	1.878E-05	2.304E-05	2.781E-05	3.289E-05	3.817E-05	4.366E-05
8.00E 01---1.00E 01	6.937E-06	7.008E-06	7.503E-06	8.078E-06	8.745E-06	9.505E-06	1.035E-05	1.128E-05	1.234E-05
6.00E 01---8.00E 01	4.814E-08	7.321E-06	9.839E-06	1.895E-05	2.434E-05	2.621E-05	3.019E-05	3.674E-05	4.547E-05
4.00E 01---6.00E 01	1.066E-04	1.073E-04	1.106E-04	1.182E-04	1.332E-04	1.515E-04	1.722E-04	1.954E-04	2.214E-04
3.00E 01---4.00E 01	1.734E-04	1.771E-04	1.948E-04	2.345E-04	3.004E-04	3.893E-04	4.868E-04	5.747E-04	6.392E-04
2.00E 01---3.00E 01	1.039E-03	1.041E-03	1.053E-03	1.053E-03	1.052E-03	1.044E-03	1.029E-03	1.009E-03	9.840E-04
1.00E 01---2.00E 01	2.739E-03	2.745E-03	2.771E-03	2.817E-03	2.883E-03	2.970E-03	3.079E-03	3.212E-03	3.369E-03
5.00E 02---1.00E 01	8.499E-03	8.513E-03	8.575E-03	8.690E-03	8.855E-03	9.073E-03	9.345E-03	9.671E-03	1.005E-02
2.00E 02---5.00E 02	2.615E-03	2.617E-03	2.625E-03	2.640E-03	2.662E-03	2.690E-03	2.725E-03	2.765E-03	2.811E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	MU= 0.9894
6.50E 00---8.00E 00	1.811E-06	2.401E-06	3.354E-06	4.984E-06	7.849E-06	1.275E-05	2.012E-05	2.816E-05	4.608E-05
5.00E 00---6.50E 00	3.710E-06	4.892E-06	6.763E-06	9.931E-06	1.548E-05	2.488E-05	3.875E-05	5.352E-05	9.120E-05
4.00E 00---5.00E 00	4.187E-05	5.473E-05	7.368E-05	1.045E-04	1.598E-04	2.635E-04	4.713E-04	1.153E-03	1.106E-03
3.00E 00---4.00E 00	1.538E-05	2.174E-05	2.882E-05	4.067E-05	6.949E-05	1.404E-04	3.093E-04	8.474E-04	5.620E-04
2.50E 00---3.00E 00	2.312E-05	3.121E-05	4.109E-05	5.862E-05	9.840E-05	1.852E-04	3.544E-04	6.766E-04	6.783E-04
2.00E 00---2.50E 00	1.667E-05	2.369E-05	3.383E-05	5.514E-05	1.055E-04	2.168E-04	4.507E-04	1.059E-03	7.483E-04
1.66E 00---2.00E 00	2.155E-05	3.019E-05	4.488E-05	7.623E-05	1.451E-04	2.876E-04	5.719E-04	1.244E-03	9.623E-04
1.33E 00---1.66E 00	1.977E-05	2.893E-05	4.951E-05	9.341E-05	1.793E-04	3.326E-04	5.917E-04	1.039E-03	1.001E-03
1.00E 00---1.33E 00	2.57E-05	3.712E-05	7.146E-05	1.385E-04	2.486E-04	4.106E-04	6.358E-04	9.504E-04	1.200E-03
8.00E 01---1.00E 01	3.253E-05	5.997E-05	1.185E-04	2.144E-04	3.424E-04	4.875E-04	6.325E-04	7.658E-04	1.456E-03
6.00E 01---8.00E 01	6.681E-05	1.214E-04	2.065E-04	3.178E-04	4.390E-04	5.471E-04	6.227E-04	6.625E-04	1.891E-03
4.00E 01---6.00E 01	1.504E-04	2.372E-04	3.349E-04	4.303E-04	5.133E-04	5.793E-04	6.274E-04	6.572E-04	2.564E-03
3.00E 01---4.00E 01	4.712E-04	5.670E-04	6.468E-04	7.096E-04	7.657E-04	8.303E-04	9.075E-04	9.767E-04	5.537E-03
2.00E 01---3.00E 01	6.804E-04	7.123E-04	7.541E-04	8.168E-04	8.945E-04	9.799E-04	1.018E-03	1.040E-03	7.836E-03
1.00E 01---2.00E 01	1.070E-03	1.119E-03	1.182E-03	1.251E-03	1.322E-03	1.393E-03	1.455E-03	1.498E-03	1.422E-02
5.00E 02---1.00E 01	3.550E-03	3.752E-03	3.973E-03	4.202E-03	4.428E-03	4.634E-03	4.798E-03	4.899E-03	4.491E-02
2.00E 02---5.00E 02	1.047E-02	1.094E-02	1.143E-02	1.192E-02	1.239E-02	1.281E-02	1.315E-02	1.332E-02	1.316E-01
	2.860E-03	2.913E-03	2.965E-03	3.016E-03	3.063E-03	3.102E-03	3.134E-03	3.149E-03	3.593E-02

4 PI R\*\*2 FLUENCE AT 1800.0 METERS

4.065 TO 6.36 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	2.249E-07	2.294E-07	2.461E-07	2.709E-07	2.961E-07	3.224E-07	3.580E-07	4.174E-07	5.172E-07
5.00E 00---6.50E 00	4.338E-07	4.481E-07	4.993E-07	5.695E-07	6.281E-07	6.744E-07	7.325E-07	8.460E-07	1.055E-06
4.00E 00---5.00E 00	4.824E-06	5.021E-06	5.720E-06	6.644E-06	7.339E-06	7.776E-06	8.271E-06	9.422E-06	1.175E-05
3.00E 00---4.00E 00	-6.094E-07	-1.918E-07	2.288E-06	2.499E-06	3.049E-06	2.728E-06	2.014E-06	2.015E-06	3.432E-06
2.50E 00---3.00E 00	5.330E-07	9.289E-07	2.218E-06	3.711E-06	4.393E-06	4.110E-06	3.571E-06	3.931E-06	5.886E-06
2.00E 00---2.50E 00	-2.796E-07	1.396E-08	8.553E-06	2.045E-06	2.247E-06	1.947E-06	1.665E-06	2.059E-06	3.686E-06
1.66E 00---2.00E 00	1.403E-06	1.488E-06	1.769E-06	2.065E-06	2.190E-06	2.267E-06	2.332E-06	3.532E-06	5.100E-06
1.33E 00---1.66E 00	3.164E-06	2.924E-06	2.100E-06	1.188E-06	9.671E-07	1.648E-06	2.990E-06	4.369E-06	5.392E-06
1.00E 00---1.33E 00	5.545E-06	4.935E-06	2.798E-06	8.116E-07	6.007E-07	1.975E-06	4.500E-06	6.315E-06	6.786E-06
8.00E 00---1.00E 00	5.415E-06	4.803E-06	2.659E-06	8.490E-07	1.065E-06	2.893E-06	5.597E-06	7.407E-06	8.708E-06
6.00E 00---8.00E 00	1.286E-06	1.453E-06	2.125E-06	3.262E-06	4.538E-06	5.645E-06	6.709E-06	9.160E-06	1.617E-05
4.00E 00---6.00E 00	-2.268E-06	-1.039E-06	2.694E-06	7.51E-06	9.535E-06	1.001E-05	1.157E-05	2.049E-05	4.148E-05
3.00E 00---4.00E 00	4.810E-05	4.828E-05	4.932E-05	5.243E-05	5.921E-05	7.485E-05	1.002E-04	1.369E-04	1.823E-04
2.00E 00---3.00E 00	7.608E-05	7.830E-05	8.870E-05	1.107E-04	1.457E-04	1.909E-04	2.388E-04	2.795E-04	3.072E-04
1.00E 00---2.00E 00	5.106E-04	5.111E-04	5.125E-04	5.128E-04	5.091E-04	5.016E-04	4.928E-04	4.875E-04	4.903E-04
5.00E 00---1.00E 01	1.300E-03	1.303E-03	1.316E-03	1.338E-03	1.369E-03	1.411E-03	1.462E-03	1.524E-03	1.597E-03
2.00E 00---5.00E 02	4.037E-03	4.043E-03	4.073E-03	4.126E-03	4.204E-03	4.305E-03	4.433E-03	4.585E-03	4.760E-03
	1.239E-03	1.240E-03	1.243E-03	1.261E-03	1.261E-03	1.274E-03	1.290E-03	1.308E-03	1.329E-03
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	6.759E-07	9.262E-07	1.353E-06	2.149E-06	3.765E-06	7.012E-06	1.281E-05	2.034E-05	2.323E-05
5.00E 00---6.50E 00	1.390E-06	1.893E-06	2.711E-06	4.239E-06	7.343E-06	1.352E-05	2.422E-05	3.747E-05	4.513E-05
4.00E 00---5.00E 00	1.549E-05	2.044E-05	2.879E-05	4.283E-05	7.142E-05	1.315E-04	2.580E-04	6.371E-04	5.111E-04
3.00E 00---4.00E 00	6.009E-06	8.764E-06	1.137E-05	1.643E-05	3.194E-05	7.375E-05	1.721E-04	4.534E-04	2.738E-04
2.50E 00---3.00E 00	9.022E-06	1.245E-05	1.638E-05	2.471E-05	4.712E-05	9.967E-05	2.027E-04	3.845E-04	3.329E-04
2.00E 00---2.50E 00	6.055E-06	8.695E-06	1.286E-05	2.340E-05	5.070E-05	1.112E-04	2.301E-04	4.932E-04	4.468E-04
1.66E 00---2.00E 00	7.228E-06	1.045E-05	1.727E-05	3.369E-05	7.038E-05	1.423E-04	2.735E-04	5.366E-04	4.281E-04
1.33E 00---1.66E 00	6.699E-06	1.066E-05	1.706E-05	4.619E-05	9.195E-05	1.680E-04	2.846E-04	4.586E-04	4.577E-04
1.00E 00---1.33E 00	8.056E-06	1.490E-05	3.362E-05	6.956E-05	1.263E-04	2.025E-04	2.972E-04	4.102E-04	5.593E-04
8.00E 00---1.00E 01	1.362E-05	2.875E-05	6.029E-05	1.099E-04	1.721E-04	2.363E-04	2.922E-04	3.351E-04	4.948E-04
6.00E 00---8.00E 00	3.227E-05	6.156E-05	1.052E-04	1.591E-04	2.138E-04	2.581E-04	2.840E-04	2.933E-04	9.019E-04
4.00E 00---6.00E 00	7.581E-05	1.198E-04	1.665E-04	2.088E-04	2.426E-04	2.677E-04	2.856E-04	2.966E-04	1.221E-03
3.00E 00---4.00E 00	2.305E-04	2.742E-04	3.085E-04	3.340E-04	3.567E-04	3.847E-04	4.176E-04	4.475E-04	2.636E-03
2.00E 00---3.00E 00	5.230E-04	5.250E-04	5.525E-04	5.808E-04	6.157E-04	6.471E-04	6.665E-04	6.703E-04	3.705E-03
1.00E 00---2.00E 00	1.681E-03	1.774E-03	1.874E-03	1.978E-03	2.079E-03	2.170E-03	2.242E-03	2.285E-03	6.712E-03
5.00E 00---1.00E 01	4.956E-03	5.169E-03	5.393E-03	5.617E-03	5.829E-03	6.014E-03	6.157E-03	6.241E-03	2.122E-02
2.00E 00---5.00E 02	1.352E-03	1.376E-03	1.400E-03	1.424E-03	1.445E-03	1.462E-03	1.475E-03	1.483E-03	6.220E-02
									1.693E-02



## 4.065 TO 6.360 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	RANGE (METERS)				300.0	400.0
			150.0	200.0	250.0	300.0		
-1.00000E-00	9.693E-11	1.143E-10	1.378E-10	1.502E-10	1.542E-10	1.524E-10	1.524E-10	1.383E-10
-9.89401E-01	9.705E-11	1.144E-10	1.380E-10	1.504E-10	1.544E-10	1.527E-10	1.527E-10	1.385E-10
-9.44575E-01	9.753E-11	1.150E-10	1.387E-10	1.512E-10	1.553E-10	1.537E-10	1.537E-10	1.396E-10
-8.65631E-01	9.852E-11	1.162E-10	1.402E-10	1.530E-10	1.573E-10	1.557E-10	1.557E-10	1.417E-10
-7.55044E-01	1.001E-10	1.181E-10	1.426E-10	1.558E-10	1.603E-10	1.590E-10	1.590E-10	1.450E-10
-6.17876E-01	1.027E-10	1.212E-10	1.464E-10	1.601E-10	1.651E-10	1.640E-10	1.640E-10	1.501E-10
-4.58017E-01	1.066E-10	1.259E-10	1.522E-10	1.669E-10	1.724E-10	1.715E-10	1.715E-10	1.574E-10
-2.81605E-01	1.126E-10	1.332E-10	1.611E-10	1.769E-10	1.831E-10	1.825E-10	1.825E-10	1.680E-10
-9.50125E-02	1.213E-10	1.437E-10	1.740E-10	1.915E-10	1.985E-10	1.981E-10	1.981E-10	1.828E-10
9.50125E-02	1.380E-10	1.938E-10	1.710E-10	2.240E-10	2.332E-10	2.171E-10	2.171E-10	2.037E-10
2.81605E-01	1.456E-10	2.134E-10	2.282E-10	2.326E-10	2.414E-10	2.546E-10	2.546E-10	2.327E-10
4.58017E-01	2.188E-10	2.201E-10	2.631E-10	2.992E-10	3.106E-10	2.988E-10	2.988E-10	2.773E-10
6.17876E-01	2.543E-10	2.952E-10	3.494E-10	3.637E-10	3.752E-10	3.823E-10	3.823E-10	3.470E-10
7.55044E-01	4.494E-10	4.375E-10	4.781E-10	5.230E-10	5.332E-10	5.169E-10	5.169E-10	4.645E-10
8.65631E-01	1.046E-09	7.423E-10	7.853E-10	8.091E-10	8.014E-10	7.782E-10	7.782E-10	6.748E-10
9.44575E-01	2.978E-09	2.488E-09	1.867E-09	1.662E-09	1.525E-09	1.390E-09	1.390E-09	1.125E-09
9.89401E-01	1.316E-08	1.334E-08	1.183E-08	9.816E-09	7.963E-09	6.426E-09	6.426E-09	4.143E-09
TOTAL	5.866E-09	5.820E-09	5.630E-09	5.468E-09	5.180E-09	4.823E-09	4.823E-09	4.040E-09

COSINE	500.0	600.0	RANGE (METERS)				1800.0
			900.0	1200.0	1500.0	1800.0	
-1.00000E-00	1.174E-10	9.523E-11	4.241E-11	1.580E-11	5.241E-12	1.603E-12	1.603E-12
-9.89401E-01	1.176E-10	9.544E-11	4.251E-11	1.584E-11	5.257E-12	1.607E-12	1.607E-12
-9.44575E-01	1.186E-10	9.632E-11	4.298E-11	1.603E-11	5.321E-12	1.628E-12	1.628E-12
-8.65631E-01	1.206E-10	9.807E-11	4.387E-11	1.639E-11	5.445E-12	1.666E-12	1.666E-12
-7.55044E-01	1.237E-10	1.008E-10	4.524E-11	1.693E-11	5.631E-12	1.724E-12	1.724E-12
-6.17876E-01	1.283E-10	1.047E-10	4.720E-11	1.770E-11	5.894E-12	1.806E-12	1.806E-12
-4.58017E-01	1.350E-10	1.104E-10	4.991E-11	1.875E-11	6.248E-12	1.915E-12	1.915E-12
-2.81605E-01	1.443E-10	1.182E-10	5.360E-11	2.015E-11	6.717E-12	2.059E-12	2.059E-12
-9.50125E-02	1.573E-10	1.289E-10	5.853E-11	2.200E-11	7.330E-12	2.246E-12	2.246E-12
9.50125E-02	1.752E-10	1.436E-10	6.513E-11	2.444E-11	8.129E-12	2.487E-12	2.487E-12
2.81605E-01	2.004E-10	1.641E-10	7.410E-11	2.769E-11	9.180E-12	2.801E-12	2.801E-12
4.58017E-01	2.376E-10	1.938E-10	8.660E-11	3.211E-11	1.058E-11	3.214E-12	3.214E-12
6.17876E-01	2.950E-10	2.387E-10	1.046E-10	3.826E-11	1.249E-11	3.767E-12	3.767E-12
7.55044E-01	3.884E-10	3.099E-10	1.315E-10	4.707E-11	1.513E-11	4.516E-12	4.516E-12
8.65631E-01	5.502E-10	4.295E-10	1.735E-10	6.013E-11	1.891E-11	5.557E-12	5.557E-12
9.44575E-01	8.740E-10	6.571E-10	2.470E-10	8.071E-11	2.454E-11	7.043E-12	7.043E-12
9.89401E-01	2.668E-09	1.722E-09	4.703E-10	1.297E-10	3.553E-11	9.562E-12	9.562E-12
TOTAL	3.251E-09	2.536E-09	1.050E-09	3.754E-10	1.213E-10	3.640E-11	3.640E-11

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

4.065 TO 6.366 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	150.0	200.0	250.0	300.0
-1.00000E-00	1.267E-10	1.516E-10	1.882E-10	2.108E-10	2.257E-10
-9.89401E-01	1.268E-10	1.518E-10	1.885E-10	2.224E-10	2.154E-10
-9.44575E-01	1.276E-10	1.527E-10	1.896E-10	2.271E-10	2.158E-10
-8.65631E-01	1.290E-10	1.545E-10	1.918E-10	2.271E-10	2.175E-10
-7.55044E-01	1.314E-10	1.572E-10	1.953E-10	2.317E-10	2.207E-10
-6.17876E-01	1.349E-10	1.615E-10	2.005E-10	2.355E-10	2.258E-10
-4.58017E-01	1.403E-10	1.680E-10	2.087E-10	2.488E-10	2.430E-10
-2.81605E-01	1.483E-10	1.778E-10	2.208E-10	2.637E-10	2.537E-10
-9.50125E-02	1.599E-10	1.918E-10	2.381E-10	2.849E-10	2.692E-10
9.50125E-02	1.817E-10	2.565E-10	3.112E-10	3.306E-10	3.092E-10
2.81605E-01	1.918E-10	2.813E-10	3.239E-10	3.434E-10	3.672E-10
4.58017E-01	2.842E-10	2.925E-10	3.564E-10	4.108E-10	4.266E-10
6.17876E-01	3.358E-10	3.888E-10	4.670E-10	5.203E-10	5.372E-10
7.55044E-01	5.966E-10	5.784E-10	6.380E-10	7.277E-10	7.153E-10
8.65631E-01	1.390E-09	9.840E-10	1.040E-09	1.082E-09	1.060E-09
9.44575E-01	3.960E-09	3.309E-09	2.482E-09	2.038E-09	1.869E-09
9.89401E-01	1.763E-08	1.784E-08	1.581E-08	1.312E-08	8.605E-09
TOTAL	7.797E-09	7.748E-09	7.564E-09	7.434E-09	6.753E-09

5.845E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.917E-10	1.624E-10	8.054E-11	3.250E-11	1.144E-11
-9.89401E-01	1.921E-10	1.627E-10	8.073E-11	3.258E-11	1.147E-11
-9.44575E-01	1.937E-10	1.641E-10	8.151E-11	3.291E-11	1.158E-11
-8.65631E-01	1.968E-10	1.669E-10	8.361E-11	3.353E-11	1.181E-11
-7.55044E-01	2.016E-10	1.712E-10	8.527E-11	3.447E-11	1.214E-11
-6.17876E-01	2.086E-10	1.773E-10	8.848E-11	3.578E-11	1.260E-11
-4.58017E-01	2.185E-10	1.859E-10	9.282E-11	3.752E-11	1.321E-11
-2.81605E-01	2.322E-10	1.976E-10	9.859E-11	3.981E-11	1.400E-11
-9.50125E-02	2.509E-10	2.133E-10	1.062E-10	4.276E-11	1.500E-11
9.50125E-02	2.762E-10	2.345E-10	1.161E-10	4.657E-11	1.629E-11
2.81605E-01	3.114E-10	2.635E-10	1.293E-10	5.152E-11	1.793E-11
4.58017E-01	3.624E-10	3.048E-10	1.473E-10	5.808E-11	2.006E-11
6.17876E-01	4.402E-10	3.663E-10	1.729E-10	6.699E-11	2.288E-11
7.55044E-01	5.655E-10	4.626E-10	2.100E-10	7.944E-11	2.669E-11
8.65631E-01	7.811E-10	6.229E-10	2.673E-10	9.754E-11	3.201E-11
9.44575E-01	1.212E-09	9.263E-10	3.637E-10	1.256E-10	3.975E-11
9.89401E-01	3.611E-09	2.351E-09	6.659E-10	1.917E-10	1.523E-11
TOTAL	4.862E-09	3.918E-09	1.769E-09	6.772E-10	2.306E-10

7.206E-11

## 4. C65 TO 6.960 MEV NEUTRON SOURCE

<sup>4</sup>PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.0000E 00	9.761E-09	1.153E-08	1.398E-08	1.531E-08	1.581E-08
-9.89401E-01	9.774E-09	1.155E-08	1.400E-08	1.533E-08	1.583E-08
-9.44575E-01	9.825E-09	1.161E-08	1.407E-08	1.542E-08	1.585E-08
-8.65631E-01	9.928E-09	1.173E-08	1.423E-08	1.561E-08	1.607E-08
-7.50044E-01	1.009E-08	1.193E-08	1.447E-08	1.589E-08	1.645E-08
-6.17876E-01	1.036E-08	1.225E-08	1.486E-08	1.634E-08	1.694E-08
-4.58017E-01	1.076E-08	1.273E-08	1.546E-08	1.703E-08	1.768E-08
-2.81605E-01	1.137E-08	1.347E-08	1.636E-08	1.805E-08	1.880E-08
-9.50125E-02	1.224E-08	1.453E-08	1.766E-08	1.953E-08	2.038E-08
-2.81605E-01	1.393E-08	1.659E-08	1.737E-08	2.280E-08	2.383E-08
4.58017E-01	1.470E-08	2.155E-08	2.313E-08	2.368E-08	2.610E-08
6.17876E-01	2.203E-08	2.225E-08	2.666E-08	3.039E-08	3.164E-08
7.50044E-01	2.569E-08	2.980E-08	3.535E-08	3.689E-08	3.898E-08
8.65631E-01	4.544E-08	4.421E-08	4.837E-08	5.297E-08	5.411E-08
9.44575E-01	1.059E-07	7.509E-08	7.939E-08	8.189E-08	8.122E-08
9.89401E-01	3.021E-07	2.522E-07	1.891E-07	1.683E-07	1.544E-07
TOTAL	5.942E-07	5.895E-07	5.707E-07	5.553E-07	5.272E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.0000E 00	1.239E-08	1.016E-08	4.654E-09	1.771E-09	5.970E-10
-9.89401E-01	1.242E-08	1.018E-08	4.666E-09	1.776E-09	5.986E-10
-9.44575E-01	1.252E-08	1.028E-08	4.715E-09	1.796E-09	6.057E-10
-8.65631E-01	1.273E-08	1.048E-08	4.811E-09	1.835E-09	6.192E-10
-7.50044E-01	1.305E-08	1.074E-08	4.956E-09	1.893E-09	6.394E-10
-6.17876E-01	1.353E-08	1.116E-08	5.163E-09	1.976E-09	6.678E-10
-4.58017E-01	1.422E-08	1.174E-08	5.449E-09	2.087E-09	7.058E-10
-2.81605E-01	1.518E-08	1.255E-08	5.833E-09	2.235E-09	7.589E-10
-9.50125E-02	1.650E-08	1.365E-08	6.346E-09	2.430E-09	8.209E-10
-2.81605E-01	1.832E-08	1.515E-08	7.028E-09	2.685E-09	9.050E-10
4.58017E-01	2.689E-08	1.724E-08	7.950E-09	3.022E-09	1.015E-09
6.17876E-01	2.465E-08	2.025E-08	9.229E-09	3.476E-09	1.160E-09
7.50044E-01	3.046E-08	2.480E-08	1.106E-08	4.107E-09	1.356E-09
8.65631E-01	3.989E-08	3.201E-08	1.380E-08	5.004E-09	1.627E-09
9.44575E-01	5.624E-08	4.410E-08	1.805E-08	6.330E-09	2.011E-09
9.89401E-01	8.899E-08	6.711E-08	2.529E-08	8.415E-09	2.582E-09
TOTAL	3.362E-07	2.642E-07	1.117E-07	4.061E-08	1.330E-08

1800.0  
1.847E-10  
1.852E-10  
1.875E-10  
1.917E-10  
1.981E-10  
2.070E-10  
2.188E-10  
2.343E-10  
2.542E-10  
2.798E-10  
3.128E-10  
3.558E-10  
4.129E-10  
4.899E-10  
5.961E-10  
7.469E-10  
1.002E-09  
4.034E-09

## 4.065 TO 6.360 MEV NEUTRON SOURCE

4 PI R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	4.077E-11	4.671E-11	5.378E-11	5.617E-11	5.412E-11
-9.89401E-01	4.085E-11	4.681E-11	5.389E-11	5.629E-11	5.423E-11
-9.44575E-01	4.119E-11	4.721E-11	5.434E-11	5.676E-11	5.469E-11
-8.65631E-01	4.184E-11	4.795E-11	5.517E-11	5.765E-11	5.557E-11
-7.55044E-01	4.280E-11	4.905E-11	5.641E-11	5.895E-11	5.689E-11
-6.17876E-01	4.423E-11	5.068E-11	5.827E-11	6.101E-11	5.889E-11
-4.59017E-01	4.634E-11	5.313E-11	6.108E-11	6.424E-11	6.190E-11
-2.81609E-01	4.945E-11	5.678E-11	6.528E-11	6.874E-11	6.635E-11
-9.50125E-02	5.389E-11	6.201E-11	7.133E-11	7.525E-11	7.274E-11
-2.81609E-01	6.199E-11	7.155E-11	8.187E-11	8.950E-11	8.055E-11
-4.58017E-01	6.610E-11	7.679E-11	8.662E-11	9.397E-11	8.646E-11
-6.17876E-01	1.020E-10	9.937E-11	1.126E-10	1.241E-10	1.160E-10
-7.55044E-01	1.256E-10	1.388E-10	1.572E-10	1.564E-10	1.547E-10
-8.65631E-01	2.402E-10	2.186E-10	2.229E-10	2.361E-10	2.339E-10
-9.44575E-01	5.899E-10	3.922E-10	2.900E-10	3.886E-10	3.749E-10
-9.89401E-01	1.718E-09	1.418E-09	1.017E-09	8.697E-10	7.736E-10
TOTAL	3.223E-09	3.078E-09	2.843E-09	2.635E-09	2.395E-09

COSINE	RANGE (METERS)				
	300.0	400.0	500.0	600.0	700.0
-1.00000E-00	5.412E-11	4.725E-11	4.055E-11	3.139E-11	3.918E-11
-9.89401E-01	5.423E-11	4.735E-11	4.085E-11	3.146E-11	3.927E-11
-9.44575E-01	5.469E-11	4.776E-11	4.122E-11	3.176E-11	3.962E-11
-8.65631E-01	5.557E-11	4.856E-11	4.149E-11	3.232E-11	4.031E-11
-7.55044E-01	5.689E-11	4.978E-11	4.189E-11	3.319E-11	4.135E-11
-6.17876E-01	5.889E-11	5.160E-11	4.247E-11	3.447E-11	4.292E-11
-4.59017E-01	6.190E-11	5.431E-11	4.329E-11	3.631E-11	4.520E-11
-2.81609E-01	6.635E-11	5.827E-11	4.426E-11	3.895E-11	4.851E-11
-9.50125E-02	7.274E-11	6.391E-11	4.596E-11	4.265E-11	5.318E-11
-2.81609E-01	8.055E-11	7.209E-11	4.851E-11	4.785E-11	5.979E-11
-4.58017E-01	9.397E-11	8.369E-11	5.110E-11	5.541E-11	6.948E-11
-6.17876E-01	1.160E-10	1.025E-10	5.357E-11	6.705E-11	8.451E-11
-7.55044E-01	1.547E-10	1.337E-10	5.681E-11	7.178E-11	9.093E-11
-8.65631E-01	2.101E-10	1.896E-10	6.178E-11	7.964E-11	1.025E-10
-9.44575E-01	3.544E-10	2.954E-10	6.578E-11	8.413E-11	1.093E-10
-9.89401E-01	6.886E-10	5.351E-10	7.153E-11	9.300E-11	1.178E-10
TOTAL	2.148E-09	1.688E-09	1.301E-10	9.679E-10	1.291E-09

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CN\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

4.065 TO 6.360 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.303E-09	1.524E-09	1.817E-09	1.966E-09	2.008E-09
-9.89401E-01	1.305E-09	1.526E-09	1.819E-09	1.968E-09	2.011E-09
-9.44575E-01	1.310E-09	1.532E-09	1.828E-09	1.978E-09	2.022E-09
-8.65631E-01	1.321E-09	1.546E-09	1.848E-09	1.999E-09	2.045E-09
-7.55044E-01	1.340E-09	1.568E-09	1.873E-09	2.032E-09	2.082E-09
-6.17876E-01	1.371E-09	1.606E-09	1.920E-09	2.086E-09	2.142E-09
-4.58017E-01	1.421E-09	1.666E-09	1.994E-09	2.171E-09	2.233E-09
-2.81605E-01	1.498E-09	1.759E-09	2.107E-09	2.299E-09	2.369E-09
-9.50125E-02	1.611E-09	1.896E-09	2.273E-09	2.486E-09	2.553E-09
9.50125E-02	1.829E-09	2.572E-09	2.230E-09	2.910E-09	3.016E-09
2.81605E-01	1.934E-09	2.844E-09	2.991E-09	3.017E-09	3.116E-09
4.58017E-01	2.951E-09	2.893E-09	3.422E-09	3.892E-09	4.022E-09
6.17876E-01	3.363E-09	3.930E-09	4.619E-09	4.740E-09	4.867E-09
7.55044E-01	5.922E-09	5.790E-09	6.270E-09	6.843E-09	6.945E-09
8.65631E-01	1.379E-08	5.785E-09	1.038E-08	1.063E-08	1.048E-08
9.44575E-01	3.920E-08	3.277E-08	2.457E-08	2.186E-08	2.000E-08
9.89401E-01	1.724E-07	1.748E-07	1.551E-07	1.287E-07	1.044E-07
TOTAL	7.733E-08	7.669E-08	7.389E-08	7.150E-08	6.749E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.518E-09	1.233E-09	5.521E-10	2.070E-10	6.906E-11
-9.89401E-01	1.521E-09	1.235E-09	5.535E-10	2.076E-10	6.926E-11
-9.44575E-01	1.534E-09	1.246E-09	5.593E-10	2.100E-10	7.009E-11
-8.65631E-01	1.558E-09	1.268E-09	5.708E-10	2.145E-10	7.166E-11
-7.55044E-01	1.597E-09	1.302E-09	5.878E-10	2.214E-10	7.404E-11
-6.17876E-01	1.654E-09	1.351E-09	6.128E-10	2.312E-10	7.740E-11
-4.58017E-01	1.738E-09	1.422E-09	6.463E-10	2.445E-10	8.191E-11
-2.81605E-01	1.855E-09	1.521E-09	6.934E-10	2.623E-10	8.789E-11
-9.50125E-02	2.019E-09	1.656E-09	7.557E-10	2.857E-10	9.568E-11
9.50125E-02	2.246E-09	1.842E-09	8.392E-10	3.166E-10	1.058E-10
2.81605E-01	2.568E-09	2.103E-09	9.526E-10	3.577E-10	1.191E-10
4.58017E-01	3.044E-09	2.482E-09	1.111E-09	4.135E-10	1.368E-10
6.17876E-01	3.784E-09	3.038E-09	1.340E-09	4.913E-10	1.608E-10
7.55044E-01	4.992E-09	3.974E-09	1.682E-09	6.026E-10	1.941E-10
8.65631E-01	7.091E-09	5.518E-09	2.218E-09	7.676E-10	2.415E-10
9.44575E-01	1.131E-08	8.466E-09	3.133E-09	1.028E-09	3.120E-10
9.89401E-01	3.475E-08	2.235E-08	6.042E-09	1.654E-09	4.507E-10
TOTAL	4.189E-08	3.263E-08	1.350E-08	4.841E-09	1.569E-09

COSINE	RANGE (METERS)				
	1800.0	2000.0	2500.0	3000.0	400.0
-1.00000E-00	2.121E-11	2.127E-11	2.127E-11	1.979E-09	1.789E-09
-9.89401E-01	2.153E-11	2.153E-11	2.153E-11	1.982E-09	1.792E-09
-9.44575E-01	2.203E-11	2.203E-11	2.203E-11	1.994E-09	1.805E-09
-8.65631E-01	2.277E-11	2.277E-11	2.277E-11	2.019E-09	1.831E-09
-7.55044E-01	2.382E-11	2.382E-11	2.382E-11	2.059E-09	1.872E-09
-6.17876E-01	2.522E-11	2.522E-11	2.522E-11	2.121E-09	1.935E-09
-4.58017E-01	2.705E-11	2.705E-11	2.705E-11	2.215E-09	2.027E-09
-2.81605E-01	2.943E-11	2.943E-11	2.943E-11	2.354E-09	2.160E-09
-9.50125E-02	3.250E-11	3.250E-11	3.250E-11	2.553E-09	2.348E-09
9.50125E-02	3.648E-11	3.648E-11	3.648E-11	2.794E-09	2.615E-09
2.81605E-01	4.170E-11	4.170E-11	4.170E-11	3.280E-09	2.986E-09
4.58017E-01	4.863E-11	4.863E-11	4.863E-11	3.853E-09	3.561E-09
6.17876E-01	5.805E-11	5.805E-11	5.805E-11	4.943E-09	4.463E-09
7.55044E-01	7.104E-11	7.104E-11	7.104E-11	6.705E-09	5.992E-09
8.65631E-01	8.952E-11	8.952E-11	8.952E-11	1.014E-08	8.735E-09
9.44575E-01	1.209E-10	1.209E-10	1.209E-10	1.817E-08	1.463E-08
9.89401E-01	4.725E-10	4.725E-10	4.725E-10	8.415E-08	5.413E-08
TOTAL	6.263E-08	6.263E-08	6.263E-08	6.263E-08	5.221E-08

## 4. C65 TO 4.360 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-00	2.199E-C9	2.488E-C9	2.808E-09	2.901E-C9	2.847E-09	2.709E-C9	2.313E-09
-9.89401E-01	2.202E-C9	2.492E-C9	2.813E-09	2.906E-09	2.851E-09	2.714E-C9	2.317E-09
-9.44575E-01	2.216E-C9	2.508E-C9	2.830E-09	2.925E-09	2.871E-09	2.733E-C9	2.335E-09
-7.55631E-01	2.242E-C9	2.533E-C9	2.865E-09	2.962E-09	2.909E-09	2.771E-C9	2.370E-09
-7.55044E-01	2.283E-C9	2.585E-C9	2.919E-09	3.020E-C9	2.969E-09	2.830E-09	2.424E-09
-6.17876E-01	2.347E-C9	2.659E-C9	3.002E-09	3.111E-09	3.030E-09	2.921E-C9	2.507E-09
-4.58017E-01	2.444E-C9	2.771E-C9	3.131E-09	3.248E-C9	3.200E-09	3.058E-C9	2.631E-09
-2.81605E-01	2.586E-C9	2.940E-C9	3.325E-09	3.455E-C9	3.410E-09	3.263E-C9	2.813E-09
-9.50125E-02	2.798E-C9	3.186E-09	3.608E-09	3.758E-09	3.716E-09	3.560E-C9	3.075E-C9
9.50125E-02	3.190E-09	4.464E-C9	3.518E-09	4.474E-09	4.465E-09	3.918E-C9	3.461E-09
2.81605E-01	3.596E-C9	5.024E-C9	4.891E-09	4.627E-09	4.575E-09	4.698E-C9	4.011E-09
4.58017E-01	5.239E-C9	4.953E-C9	5.531E-C9	6.148E-C9	6.123E-09	5.628E-C9	4.915E-09
9.17876E-01	6.001E-C9	6.941E-C9	7.895E-C9	7.664E-C9	7.588E-09	7.496E-C9	6.396E-09
7.55044E-01	1.080E-C8	1.039E-C8	1.086E-C8	1.151E-C8	1.133E-C8	1.062E-C8	9.025E-C8
8.65631E-01	2.607E-C8	1.799E-C8	1.865E-C8	1.862E-C8	1.788E-C8	1.689E-C8	1.392E-C8
9.44575E-01	7.713E-C8	6.316E-C8	4.598E-C8	4.003E-C8	3.589E-C8	3.198E-C8	2.478E-C8
9.89401E-01	3.372E-C7	3.419E-C7	3.015E-C7	2.483E-C7	1.996E-C7	1.595E-C7	1.005E-C7
TOTAL	1.461E-C7	1.424E-C7	1.320E-C7	1.231E-C7	1.121E-C7	1.006E-C7	7.885E-08

COSINE	500.0	600.0	RANGE (METERS) 900.0	1200.0	1500.0	1800.0
-1.00000E-00	1.880E-C9	1.480E-C9	6.357E-10	2.380E-10	8.051E-11	2.516E-11
-9.89401E-01	1.884E-C9	1.403E-C9	6.371E-10	2.386E-10	8.070E-11	2.522E-11
-9.44575E-01	1.899E-C9	1.426E-C9	6.432E-10	2.410E-10	8.151E-11	2.548E-11
-8.65631E-01	1.930E-C9	1.521E-09	6.550E-10	2.455E-10	8.306E-11	2.596E-11
-7.55044E-01	1.977E-C9	1.560E-C9	6.731E-10	2.524E-10	8.540E-11	2.669E-11
-6.17876E-01	2.048E-C9	1.619E-C9	6.993E-10	2.623E-10	8.870E-11	2.770E-11
-4.58017E-01	2.153E-C9	1.703E-C9	7.363E-10	2.759E-10	9.320E-11	2.907E-11
-2.81605E-01	2.304E-09	1.824E-09	7.878E-10	2.945E-10	9.923E-11	3.090E-11
-9.50125E-02	2.521E-C9	1.994E-C9	8.587E-10	3.196E-10	1.073E-10	3.329E-11
9.50125E-02	2.830E-C9	2.238E-C9	9.575E-10	3.539E-10	1.181E-10	3.646E-11
2.81605E-01	3.290E-C9	2.594E-C9	1.098E-C9	4.016E-10	1.328E-10	4.073E-11
4.58017E-01	4.004E-09	3.142E-09	1.307E-09	4.703E-10	1.535E-10	4.661E-11
6.17876E-01	5.178E-C9	4.025E-C9	1.629E-09	5.723E-10	1.834E-10	5.491E-11
7.55044E-01	7.191E-C9	5.510E-C9	2.142E-09	7.285E-10	2.277E-10	6.690E-11
8.65631E-01	1.095E-C8	8.134E-C9	2.993E-C9	9.754E-10	2.951E-10	8.462E-11
9.44575E-01	1.847E-08	1.337E-C8	4.528E-09	1.390E-C9	4.020E-10	1.115E-10
9.89401E-01	6.301E-C8	3.948E-C8	9.805E-09	2.478E-C9	6.323E-10	1.614E-10
TOTAL	5.998E-C8	4.467E-C8	1.688E-08	5.778E-09	1.834E-09	5.481E-10



4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

4.C65 TO 6.360 MEV NEUTRON SOURCE

COSINE	RANGE (METER <sup>2</sup> )				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	1.233E-10	1.468E-10	1.795E-10	1.977E-10	2.037E-10
-9.89401E-01	1.235E-10	1.469E-10	1.797E-10	1.979E-10	2.041E-10
-9.44575E-01	1.241E-10	1.477E-10	1.807E-10	1.991E-10	2.055E-10
-8.65631E-01	1.254E-10	1.493E-10	1.827E-10	2.014E-10	2.083E-10
-7.55044E-01	1.275E-10	1.518E-10	1.858E-10	2.051E-10	2.127E-10
-6.17876E-01	1.308E-10	1.558E-10	1.908E-10	2.104E-10	2.194E-10
-4.58017E-01	1.359E-10	1.619E-10	1.984E-10	2.198E-10	2.295E-10
-2.81605E-01	1.435E-10	1.712E-10	2.099E-10	2.330E-10	2.441E-10
-9.50125E-02	1.545E-10	1.845E-10	2.265E-10	2.519E-10	2.647E-10
9.50125E-02	1.758E-10	2.470E-10	2.265E-10	2.939E-10	2.897E-10
2.81605E-01	1.850E-10	2.703E-10	2.950E-10	3.049E-10	3.386E-10
4.58017E-01	2.745E-10	2.821E-10	3.420E-10	3.902E-10	3.958E-10
6.17876E-01	3.212E-10	3.732E-10	4.461E-10	4.715E-10	5.028E-10
7.55044E-01	5.635E-10	5.514E-10	6.112E-10	6.724E-10	6.738E-10
8.65631E-01	1.300E-09	9.315E-10	9.910E-10	1.030E-09	1.003E-09
9.44575E-01	3.688E-09	3.089E-09	2.335E-09	1.929E-09	1.769E-09
9.89401E-01	1.629E-08	1.651E-08	1.466E-08	1.219E-08	8.012E-09
TOTAL	7.317E-09	7.294E-09	7.128E-09	6.988E-09	6.264E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.597E-10	1.302E-10	5.827E-11	2.168E-11	2.181E-12
-9.89401E-01	1.600E-10	1.305E-10	5.842E-11	2.174E-11	2.188E-12
-9.44575E-01	1.615E-10	1.317E-10	5.908E-11	2.201E-11	2.217E-12
-8.65631E-01	1.642E-10	1.342E-10	6.035E-11	2.252E-11	2.273E-12
-7.55044E-01	1.685E-10	1.379E-10	6.228E-11	2.329E-11	2.356E-12
-6.17876E-01	1.749E-10	1.434E-10	6.506E-11	2.439E-11	2.472E-12
-4.58017E-01	1.840E-10	1.512E-10	6.887E-11	2.587E-11	2.628E-12
-2.81605E-01	1.967E-10	1.620E-10	7.402E-11	2.785E-11	2.834E-12
9.50125E-02	2.142E-10	1.766E-10	8.038E-11	3.046E-11	3.099E-12
9.50125E-02	2.383E-10	1.966E-10	9.011E-11	3.387E-11	3.442E-12
2.81605E-01	2.720E-10	2.242E-10	1.023E-10	3.898E-11	3.885E-12
4.58017E-01	3.210E-10	2.637E-10	1.193E-10	4.447E-11	4.464E-12
6.17876E-01	3.960E-10	3.228E-10	1.435E-10	5.286E-11	5.231E-12
7.55044E-01	5.166E-10	4.155E-10	1.792E-10	6.473E-11	6.262E-12
8.65631E-01	7.236E-10	5.695E-10	2.343E-10	8.211E-11	7.677E-12
9.44575E-01	1.134E-09	8.595E-10	3.270E-10	1.092E-10	9.676E-12
9.89401E-01	3.369E-09	2.190E-09	6.118E-10	1.721E-10	1.300E-11
TOTAL	4.326E-09	3.404E-09	1.432E-09	5.158E-10	5.021E-11



## 4.065 TO 6.360 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	9.933E-13	1.130E-12	1.309E-12	1.405E-12	1.446E-12
-9.89401E-01	9.989E-13	1.137E-12	1.318E-12	1.415E-12	1.460E-12
-9.44575E-01	1.020E-12	1.164E-12	1.356E-12	1.464E-12	1.513E-12
-8.65631E-01	1.061E-12	1.215E-12	1.422E-12	1.543E-12	1.616E-12
-7.55044E-01	1.121E-12	1.286E-12	1.511E-12	1.643E-12	1.726E-12
-6.17876E-01	1.200E-12	1.379E-12	1.622E-12	1.763E-12	1.830E-12
-4.58017E-01	1.306E-12	1.501E-12	1.764E-12	1.915E-12	1.998E-12
-2.81605E-01	1.447E-12	1.667E-12	1.958E-12	2.122E-12	2.195E-12
-9.50125E-02	1.639E-12	1.893E-12	2.226E-12	2.414E-12	2.498E-12
9.50125E-02	1.946E-12	2.777E-12	2.508E-12	2.869E-12	2.972E-12
2.81605E-01	2.841E-12	2.633E-12	3.107E-12	3.363E-12	3.488E-12
4.58017E-01	2.970E-12	3.508E-12	3.843E-12	4.281E-12	4.440E-12
6.17876E-01	3.207E-12	4.406E-12	5.267E-12	5.503E-12	5.711E-12
7.55044E-01	4.192E-12	5.808E-12	7.084E-12	7.777E-12	8.054E-12
8.65631E-01	6.815E-12	7.537E-12	1.083E-11	1.201E-11	1.242E-11
9.44575E-01	1.065E-11	1.392E-11	1.771E-11	2.079E-11	2.226E-11
9.89401E-01	1.583E-11	2.369E-11	3.601E-11	4.410E-11	4.918E-11
TOTAL	3.418E-11	4.218E-11	5.183E-11	5.795E-11	6.091E-11

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.271E-12	1.121E-12	6.478E-13	3.068E-13	1.267E-13
-9.89401E-01	1.287E-12	1.136E-12	6.578E-13	3.126E-13	1.299E-13
-9.44575E-01	1.346E-12	1.191E-12	6.943E-13	3.335E-13	1.411E-13
-8.65631E-01	1.439E-12	1.275E-12	7.492E-13	3.637E-13	1.566E-13
-7.55044E-01	1.539E-12	1.366E-12	8.046E-13	3.922E-13	1.697E-13
-6.17876E-01	1.643E-12	1.458E-12	8.602E-13	4.192E-13	1.804E-13
-4.58017E-01	1.769E-12	1.570E-12	9.296E-13	4.534E-13	1.937E-13
-2.81605E-01	1.953E-12	1.736E-12	1.038E-12	5.107E-13	2.192E-13
-9.50125E-02	2.230E-12	1.990E-12	1.209E-12	6.058E-13	2.646E-13
9.50125E-02	2.627E-12	2.354E-12	1.459E-12	7.476E-13	3.340E-13
2.81605E-01	3.171E-12	2.849E-12	1.797E-12	9.440E-13	4.312E-13
4.58017E-01	3.929E-12	3.530E-12	2.260E-12	1.220E-12	5.719E-13
6.17876E-01	5.080E-12	4.551E-12	2.947E-12	1.645E-12	8.028E-13
7.55044E-01	7.046E-12	6.283E-12	4.089E-12	2.368E-12	1.222E-12
8.65631E-01	1.083E-11	9.600E-12	6.086E-12	3.675E-12	2.008E-12
9.44575E-01	1.951E-11	1.711E-11	1.054E-11	6.254E-12	3.510E-12
9.89401E-01	4.731E-11	4.154E-11	2.481E-11	1.378E-11	7.445E-12
TOTAL	5.454E-11	4.843E-11	3.016E-11	1.656E-11	8.301E-12

TOTAL

4.065 TO 6.360 MEV NEUTRON SOURCE

4. PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	9.952E-11	1.149E-10	1.370E-10	1.511E-10	1.589E-10
-9.89401E-01	1.001E-10	1.156E-10	1.379E-10	1.522E-10	1.613E-10
-9.44575E-01	1.022E-10	1.182E-10	1.416E-10	1.567E-10	1.695E-10
-8.65031E-01	1.061E-10	1.232E-10	1.481E-10	1.645E-10	1.742E-10
-7.55044E-01	1.119E-10	1.301E-10	1.568E-10	1.744E-10	1.878E-10
-6.17876E-01	1.196E-10	1.391E-10	1.677E-10	1.863E-10	2.021E-10
-4.58017E-01	1.298E-10	1.511E-10	1.817E-10	2.014E-10	2.173E-10
-2.81605E-01	1.436E-10	1.672E-10	2.006E-10	2.218E-10	2.335E-10
-9.50125E-02	1.622E-10	1.891E-10	2.268E-10	2.506E-10	2.635E-10
9.50125E-02	1.919E-10	2.744E-10	2.536E-10	2.955E-10	3.106E-10
2.81605E-01	2.778E-10	2.610E-10	3.191E-10	3.431E-10	3.605E-10
4.58017E-01	2.914E-10	3.445E-10	3.834E-10	4.331E-10	4.541E-10
6.17876E-01	3.139E-10	4.333E-10	5.233E-10	5.513E-10	5.772E-10
7.55044E-01	4.091E-10	5.685E-10	6.964E-10	7.720E-10	8.050E-10
8.65031E-01	6.628E-10	7.352E-10	1.061E-09	1.181E-09	1.227E-09
9.44575E-01	1.034E-09	1.353E-09	1.776E-09	2.032E-09	2.180E-09
9.89401E-01	1.535E-09	2.299E-09	3.497E-09	4.290E-09	4.790E-09
TOTAL	3.351E-09	4.156E-09	5.161E-09	5.825E-09	6.176E-09
					6.308E-09
					6.153E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.484E-10	1.322E-10	7.776E-11	3.772E-11	1.620E-11
-9.89401E-01	1.500E-10	1.337E-10	7.875E-11	3.829E-11	1.651E-11
-9.44575E-01	1.559E-10	1.392E-10	8.240E-11	4.038E-11	1.763E-11
-8.65031E-01	1.652E-10	1.477E-10	8.794E-11	4.342E-11	1.918E-11
-7.55044E-01	1.754E-10	1.569E-10	9.764E-11	4.637E-11	2.054E-11
-6.17876E-01	1.862E-10	1.665E-10	9.949E-11	4.923E-11	2.170E-11
-4.58017E-01	1.993E-10	1.783E-10	1.068E-10	5.285E-11	2.314E-11
-2.81605E-01	2.182E-10	1.954E-10	1.180E-10	5.879E-11	2.578E-11
-9.50125E-02	2.462E-10	2.212E-10	1.355E-10	6.845E-11	3.039E-11
9.50125E-02	2.861E-10	2.579E-10	1.606E-10	8.272E-11	3.737E-11
2.81605E-01	3.403E-10	3.074E-10	1.945E-10	1.034E-10	4.710E-11
4.58017E-01	4.133E-10	3.749E-10	2.407E-10	1.299E-10	6.112E-11
6.17876E-01	5.283E-10	4.759E-10	3.087E-10	1.721E-10	8.400E-11
7.55044E-01	7.199E-10	6.446E-10	4.207E-10	2.433E-10	1.254E-10
8.65031E-01	1.088E-09	9.667E-10	6.252E-10	3.712E-10	2.025E-10
9.44575E-01	1.928E-09	1.695E-09	1.058E-09	6.229E-10	3.496E-10
9.89401E-01	4.629E-09	4.070E-09	2.441E-09	1.359E-09	7.361E-10
TOTAL	5.630E-09	5.067E-09	3.169E-09	1.740E-09	8.720E-10
					4.117E-10

## 4.065 TO 6.360 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.225E-10	1.528E-10	2.062E-10	2.488E-10	2.796E-10
-9.89401E-01	1.231E-10	1.535E-10	2.072E-10	2.501E-10	2.812E-10
-9.44575E-01	1.252E-10	1.563E-10	2.111E-10	2.551E-10	2.869E-10
-8.65631E-01	1.292E-10	1.614E-10	2.182E-10	2.637E-10	2.968E-10
-7.55044E-01	1.350E-10	1.686E-10	2.277E-10	2.750E-10	3.093E-10
-6.17876E-01	1.429E-10	1.781E-10	2.398E-10	2.889E-10	3.242E-10
-4.58017E-01	1.532E-10	1.905E-10	2.538E-10	3.065E-10	3.431E-10
-2.81605E-01	1.671E-10	2.072E-10	2.767E-10	3.301E-10	3.684E-10
-9.50125E-02	1.857E-10	2.297E-10	3.043E-10	3.624E-10	4.034E-10
9.50125E-02	2.149E-10	3.132E-10	3.346E-10	4.107E-10	4.554E-10
2.81605E-01	2.988E-10	3.621E-10	3.999E-10	4.637E-10	5.128E-10
4.58017E-01	3.120E-10	3.858E-10	4.679E-10	5.568E-10	6.116E-10
6.17876E-01	3.353E-10	4.706E-10	6.031E-10	6.793E-10	7.414E-10
7.55044E-01	4.277E-10	6.032E-10	7.800E-10	8.991E-10	9.709E-10
8.65631E-01	6.709E-10	7.656E-10	1.131E-09	1.300E-09	1.387E-09
9.44575E-01	1.025E-09	1.356E-09	1.772E-09	2.119E-09	2.306E-09
9.89401E-01	1.502E-09	2.257E-09	3.460E-09	4.270E-09	4.790E-09
TOTAL	3.602E-09	4.614E-09	6.096E-09	7.213E-09	7.938E-09
COSINE	RANGE (METERS)				
	500.0	600.0	800.0	1200.0	1500.0
-1.00000E-00	2.981E-10	2.693E-10	1.628E-10	8.333E-11	3.901E-11
-9.89401E-01	2.999E-10	2.709E-10	1.639E-10	8.395E-11	3.935E-11
-9.44575E-01	3.066E-10	2.772E-10	1.680E-10	8.626E-11	3.935E-11
-8.65631E-01	3.176E-10	2.873E-10	1.745E-10	8.977E-11	4.057E-11
-7.55044E-01	3.304E-10	2.989E-10	1.817E-10	9.352E-11	4.235E-11
-6.17876E-01	3.450E-10	3.121E-10	1.897E-10	9.752E-11	4.411E-11
-4.58017E-01	3.631E-10	3.284E-10	1.997E-10	1.026E-10	4.585E-11
-2.81605E-01	3.881E-10	3.510E-10	2.142E-10	1.026E-10	4.803E-11
-9.50125E-02	4.232E-10	3.832E-10	2.352E-10	1.102E-10	5.150E-11
9.50125E-02	4.711E-10	4.271E-10	2.642E-10	1.216E-10	5.697E-11
2.81605E-01	5.344E-10	4.846E-10	3.023E-10	1.377E-10	6.482E-11
4.58017E-01	6.191E-10	5.608E-10	3.526E-10	1.592E-10	7.539E-11
6.17876E-01	7.417E-10	6.696E-10	4.240E-10	1.884E-10	9.011E-11
7.55044E-01	9.403E-10	8.447E-10	5.373E-10	2.314E-10	1.132E-10
8.65631E-01	1.307E-09	1.165E-09	7.378E-10	3.017E-10	1.534E-10
9.44575E-01	2.119E-09	1.868E-09	1.152E-09	4.249E-10	2.267E-10
9.89401E-01	4.678E-09	4.113E-09	2.450E-09	6.632E-10	3.647E-10
TOTAL	7.952E-09	7.142E-09	4.422E-09	2.391E-09	1.191E-09
COSINE	RANGE (METERS)				
	1800.0	2500.0	300.0	400.0	500.0
-1.00000E-00	1.740E-11	1.759E-11	2.996E-10	3.119E-10	3.137E-10
-9.89401E-01	1.759E-11	1.820E-11	3.013E-10	3.137E-10	3.137E-10
-9.44575E-01	1.820E-11	1.911E-11	3.076E-10	3.183E-10	3.206E-10
-8.65631E-01	1.911E-11	1.988E-11	3.159E-10	3.315E-10	3.315E-10
-7.55044E-01	2.055E-11	2.055E-11	3.470E-10	3.610E-10	3.454E-10
-6.17876E-01	2.138E-11	2.138E-11	3.665E-10	3.803E-10	3.610E-10
-4.58017E-01	2.283E-11	2.283E-11	3.927E-10	4.068E-10	3.803E-10
-2.81605E-01	2.525E-11	2.525E-11	4.292E-10	4.435E-10	4.068E-10
-9.50125E-02	2.877E-11	2.877E-11	4.784E-10	4.939E-10	4.435E-10
9.50125E-02	3.366E-11	3.366E-11	5.474E-10	5.612E-10	4.939E-10
2.81605E-01	3.666E-11	3.666E-11	6.398E-10	6.529E-10	5.612E-10
4.58017E-01	4.005E-11	4.005E-11	7.800E-10	7.870E-10	6.529E-10
6.17876E-01	5.103E-11	5.103E-11	1.007E-09	1.007E-09	7.870E-10
7.55044E-01	7.199E-11	7.199E-11	1.431E-09	1.411E-09	1.007E-09
8.65631E-01	1.131E-10	1.131E-10	2.375E-09	2.317E-09	1.411E-09
9.44575E-01	1.919E-10	1.919E-10	5.066E-09	5.076E-09	2.317E-09
9.89401E-01	3.797E-10	3.797E-10	8.347E-09	8.455E-09	5.076E-09
TOTAL	5.624E-10	5.624E-10			

COSINE	75. C	10C.0	150.0	RANGE (METERS) 20C.0	250.0	30C.0	400.0
-1.1.00000E+00	1.016E-10	1.178E-10	1.419E-10	1.580E-10	1.677E-10	1.727E-10	1.717E-10
-8.89401E-01	1.021E-10	1.185E-10	1.429E-10	1.592E-10	1.691E-10	1.742E-10	1.734E-10
-8.44575E-01	1.042E-10	1.212E-10	1.466E-10	1.638E-10	1.743E-10	1.799E-10	1.795E-10
-8.5831E-01	1.083E-10	1.262E-10	1.532E-10	1.717E-10	1.893E-10	1.993E-10	1.892E-10
-7.55044E-01	1.141E-10	1.331E-10	1.619E-10	1.816E-10	1.939E-10	2.004E-10	2.002E-10
-6.17876E-01	1.219E-10	1.423E-10	1.729E-10	1.936E-10	2.063E-10	2.128E-10	2.121E-10
-4.58017E-01	1.322E-10	1.544E-10	1.870E-10	2.088E-10	2.217E-10	2.282E-10	2.266E-10
-2.81605E-01	1.431E-10	1.706E-10	2.061E-10	2.294E-10	2.430E-10	2.494E-10	2.470E-10
9.50125E-02	1.649E-10	1.927E-10	2.325E-10	2.584E-10	2.732E-10	2.801E-10	2.770E-10
9.50125E-02	1.949E-10	2.789E-10	2.593E-10	3.039E-10	3.208E-10	3.226E-10	3.186E-10
2.81605E-01	2.815E-10	2.654E-10	2.593E-10	3.039E-10	3.208E-10	3.226E-10	3.186E-10
4.58017E-01	2.935E-10	3.492E-10	3.258E-10	3.514E-10	3.707E-10	3.847E-10	3.782E-10
6.17876E-01	3.182E-10	4.397E-10	3.902E-10	4.425E-10	4.693E-10	4.693E-10	4.606E-10
7.55044E-01	4.143E-10	5.761E-10	5.321E-10	5.614E-10	5.891E-10	6.031E-10	5.860E-10
8.55331E-01	6.710E-10	7.445E-10	7.058E-10	7.844E-10	8.191E-10	8.267E-10	7.997E-10
9.44575E-01	1.047E-09	1.370E-09	1.748E-09	1.198E-09	1.245E-09	1.260E-09	1.211E-09
9.89401E-01	1.534E-09	2.328E-09	3.543E-09	2.058E-09	2.209E-09	2.249E-09	2.159E-09
TOTAL	3.399E-09	4.220E-09	5.256E-09	5.950E-09	6.325E-09	6.477E-09	6.344E-09

COSINE	RANGE (METERS)					1800.0
	500.0	600.0	900.0	1200.0	1500.0	
~1.00000E+00	1.607E-10	1.437E-10	8.508E-11	4.154E-11	1.802E-11	7.303E-12
-9.89400E-01	1.623E-10	1.452E-10	8.607E-11	4.212E-11	1.834E-11	7.486E-12
-9.44575E-01	1.683E-10	1.508E-10	8.979E-11	4.424E-11	1.949E-11	8.062E-12
-8.65631E-01	1.777E-10	1.595E-10	9.542E-11	4.734E-11	2.107E-11	8.883E-12
-7.55044E-01	1.880E-10	1.688E-10	1.012E-10	5.034E-11	2.245E-11	9.473E-12
-6.17876E-01	1.989E-10	1.785E-10	1.071E-10	5.323E-11	2.361E-11	9.851E-12
-4.58017E-01	2.122E-10	1.904E-10	1.145E-10	5.690E-11	2.507E-11	1.031E-11
-2.81605E-01	2.312E-10	2.077E-10	1.259E-10	6.291E-11	2.774E-11	1.136E-11
-9.52125E-02	2.595E-10	2.338E-10	1.436E-10	7.271E-11	3.241E-11	1.349E-11
9.50125E-02	2.597E-10	2.308E-10	1.690E-10	8.719E-11	3.949E-11	1.659E-11
2.81605E-01	3.544E-10	3.208E-10	2.034E-10	1.072E-10	4.936E-11	2.089E-11
4.58017E-01	4.300E-10	3.889E-10	2.502E-10	1.351E-10	6.360E-11	2.722E-11
6.17876E-01	5.438E-10	4.902E-10	3.190E-10	1.779E-10	8.884E-11	3.831E-11
7.55044E-01	7.369E-10	6.609E-10	4.324E-10	2.502E-10	1.289E-10	6.038E-11
8.65631E-01	1.108E-09	9.863E-10	6.396E-10	3.802E-10	2.075E-10	1.048E-10
9.44575E-01	1.959E-09	1.724E-09	1.079E-09	6.362E-10	3.576E-10	1.912E-10
9.89401E-01	4.700E-09	4.135E-09	2.485E-09	1.387E-09	7.521E-10	3.995E-10
TOTAL	5.873E-09	5.250E-09	3.291E-09	1.808E-09	9.062E-10	4.279E-10

## 2.35 TO 4.065 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9854	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.34E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.34E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	7.886E-04	9.005E-04	9.005E-04	1.095E-03	1.339E-03	1.614E-03	1.930E-03	2.307E-03	2.808E-03
2.46E 00--3.01E 00	2.131E-02	2.115E-02	2.115E-02	2.082E-02	2.040E-02	1.998E-02	1.969E-02	1.974E-02	2.043E-02
2.35E 00--2.46E 00	3.214E-02	3.147E-02	3.147E-02	3.032E-02	2.896E-02	2.770E-02	2.687E-02	2.686E-02	2.811E-02
1.83E 00--2.35E 00	2.066E-02	2.042E-02	2.042E-02	2.027E-02	2.019E-02	2.038E-02	2.097E-02	2.209E-02	2.386E-02
1.11E 00--1.83E 00	9.363E-03	9.398E-03	9.398E-03	9.477E-03	9.633E-03	9.889E-03	1.027E-02	1.079E-02	1.148E-02
5.50E 01--1.11E 00	8.157E-03	8.157E-03	8.157E-03	8.301E-03	8.442E-03	8.633E-03	8.874E-03	9.172E-03	9.532E-03
1.11E 01--5.50E 01	8.774E-03	8.782E-03	8.814E-03	8.874E-03	8.962E-03	9.076E-03	9.214E-03	9.377E-03	9.563E-03
3.35E 02--1.11E 01	4.662E-02	4.664E-02	4.672E-02	4.686E-02	4.707E-02	4.733E-02	4.765E-02	4.801E-02	4.840E-02
5.83E 04--3.35E 02	3.784E-02	3.785E-02	3.787E-02	3.797E-02	3.809E-02	3.823E-02	3.839E-02	3.858E-02	3.878E-02
1.01E 04--5.83E 04	2.184E 00	2.184E 00	2.188E 00	2.190E 00	2.195E 00	2.202E 00	2.210E 00	2.219E 00	2.228E 00
2.90E 05--1.01E 04	9.198E 00	9.200E 00	9.208E 00	9.222E 00	9.242E 00	9.267E 00	9.296E 00	9.329E 00	9.364E 00
1.07E 05--2.90E 05	2.637E 01	2.638E 01	2.640E 01	2.644E 01	2.649E 01	2.656E 01	2.664E 01	2.672E 01	2.682E 01
3.06E 06--1.07E 05	6.929E 01	6.930E 01	6.935E 01	6.945E 01	6.958E 01	6.976E 01	6.993E 01	7.014E 01	7.037E 01
1.12E 06--3.06E 06	1.830E 02	1.830E 02	1.831E 02	1.833E 02	1.837E 02	1.841E 02	1.845E 02	1.851E 02	1.856E 02
4.14E 07--1.12E 06	3.954E 02	3.954E 02	3.957E 02	3.961E 02	3.968E 02	3.976E 02	3.986E 02	3.997E 02	4.008E 02
0.0	5.665E 02	5.666E 02	5.671E 02	5.678E 02	5.688E 02	5.699E 02	5.712E 02	5.725E 02	5.739E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.34E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.34E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	5.191E-03	5.191E-03	8.774E-03	1.706E-02	4.267E-02	1.320E-01	2.846E-01	1.517E 00	5.316E-01
2.46E 00--3.01E 00	3.134E-02	2.782E-02	3.003E-02	3.461E-02	5.766E-02	1.393E-01	5.060E-01	1.863E 00	9.048E-01
2.35E 00--2.46E 00	4.421E-02	3.320E-02	3.947E-02	5.812E-02	9.043E-02	1.804E-01	5.650E-01	1.596E 00	1.105E 00
1.83E 00--2.35E 00	2.555E-02	4.567E-02	3.463E-02	3.798E-02	4.692E-02	7.108E-02	1.011E-01	1.268E-01	1.688E-01
1.11E 00--1.83E 00	1.253E-02	1.439E-02	1.538E-02	1.476E-02	1.770E-02	2.441E-02	2.450E-02	2.501E-02	1.688E-01
5.50E 01--1.11E 00	1.010E-02	1.117E-02	1.058E-02	1.086E-02	1.318E-02	1.339E-02	1.288E-02	1.525E-02	1.278E-01
1.11E 01--5.50E 01	9.957E-03	9.971E-03	9.945E-03	1.062E-02	1.104E-02	1.382E-02	1.089E-02	1.208E-02	1.230E-01
3.35E 02--1.11E 01	4.896E-02	4.966E-02	5.020E-02	4.906E-02	4.963E-02	5.217E-02	5.139E-02	5.017E-02	6.127E-01
5.83E 04--3.35E 02	3.899E-02	3.921E-02	3.941E-02	3.959E-02	3.976E-02	3.991E-02	4.001E-02	4.006E-02	4.889E-01
1.01E 04--5.83E 04	2.238E 00	2.248E 00	2.257E 00	2.265E 00	2.273E 00	2.279E 00	2.283E 00	2.285E 00	2.807E 01
2.90E 05--1.01E 04	9.400E 00	9.435E 00	9.460E 00	9.500E 00	9.526E 00	9.548E 00	9.564E 00	9.571E 00	1.179E 02
1.07E 05--2.90E 05	2.691E 01	2.701E 01	2.710E 01	2.718E 01	2.725E 01	2.731E 01	2.735E 01	2.737E 01	3.376E 02
3.06E 06--1.07E 05	7.060E 01	7.083E 01	7.103E 01	7.124E 01	7.141E 01	7.155E 01	7.165E 01	7.169E 01	8.858E 02
1.12E 06--3.06E 06	1.862E 02	1.868E 02	1.873E 02	1.878E 02	1.882E 02	1.885E 02	1.888E 02	1.889E 02	2.336E 03
4.14E 07--1.12E 06	4.020E 02	4.031E 02	4.042E 02	4.052E 02	4.061E 02	4.068E 02	4.073E 02	4.075E 02	5.044E 03
0.0	5.753E 02	5.768E 02	5.782E 02	5.795E 02	5.806E 02	5.814E 02	5.819E 02	5.820E 02	7.221E 03

## 2.35 TO 4.065 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*\*2 FLUENCE AT 150.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	7.703E-04	8.014E-04	9.200E-04	1.122E-03	1.368E-03	1.644E-03	1.955E-03	2.331E-03	2.827E-03
2.46E 00--3.01E 00	1.995E-02	1.990E-02	1.971E-02	1.934E-02	1.887E-02	1.838E-02	1.804E-02	1.808E-02	1.883E-02
2.35E 00--2.46E 00	3.105E-02	3.089E-02	3.025E-02	2.919E-02	2.803E-02	2.708E-02	2.673E-02	2.739E-02	2.958E-02
1.83E 00--2.35E 00	2.499E-02	2.495E-02	2.485E-02	2.478E-02	2.492E-02	2.545E-02	2.659E-02	2.847E-02	3.128E-02
1.11E 00--1.83E 00	1.785E-02	1.787E-02	1.799E-02	1.825E-02	1.869E-02	1.937E-02	2.032E-02	2.162E-02	2.330E-02
5.50E 00--1.11E 00	2.087E-02	2.091E-02	2.108E-02	2.140E-02	2.189E-02	2.255E-02	2.341E-02	2.448E-02	2.579E-02
1.11E 00--5.50E 01	2.717E-02	2.720E-02	2.735E-02	2.762E-02	2.802E-02	2.855E-02	2.919E-02	2.995E-02	3.083E-02
3.35E 00--1.11E 01	1.595E-01	1.596E-01	1.603E-01	1.609E-01	1.620E-01	1.635E-01	1.653E-01	1.673E-01	1.696E-01
5.83E 00--3.35E 02	1.333E-01	1.334E-01	1.336E-01	1.341E-01	1.348E-01	1.357E-01	1.367E-01	1.379E-01	1.392E-01
1.01E 00--5.83E 04	7.817E 00	7.820E 00	7.834E 00	7.859E 00	7.893E 00	7.937E 00	7.989E 00	8.048E 00	8.111E 00
2.90E 00--1.01E 04	3.322E 01	3.323E 01	3.329E 01	3.338E 01	3.352E 01	3.368E 01	3.388E 01	3.410E 01	3.434E 01
1.07E 00--2.90E 05	9.579E 01	9.582E 01	9.596E 01	9.623E 01	9.659E 01	9.703E 01	9.759E 01	9.820E 01	9.885E 01
3.06E 00--1.07E 05	2.531E 02	2.537E 02	2.535E 02	2.542E 02	2.551E 02	2.563E 02	2.575E 02	2.590E 02	2.606E 02
1.12E 00--3.06E 06	6.709E 02	6.711E 02	6.720E 02	6.736E 02	6.759E 02	6.787E 02	6.820E 02	6.858E 02	6.898E 02
4.14E 00--1.12E 06	1.455E 03	1.455E 03	1.457E 03	1.460E 03	1.465E 03	1.471E 03	1.478E 03	1.485E 03	1.493E 03
0.0	2.093E 03	2.093E 03	2.096E 03	2.101E 03	2.108E 03	2.115E 03	2.124E 03	2.134E 03	2.144E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	2.803E-03	5.659E-03	6.410E-03	1.338E-02	2.253E-02	4.680E-02	1.625E-01	1.138E 00	3.445E-01
2.46E 00--3.01E 00	2.440E-02	3.182E-02	2.386E-02	4.324E-02	7.621E-02	1.034E-01	2.558E-01	1.788E 00	7.753E-01
2.35E 00--2.46E 00	2.270E-02	4.316E-02	6.246E-02	5.892E-02	1.185E-01	1.613E-01	3.663E-01	2.111E 00	1.068E 00
1.83E 00--2.35E 00	4.133E-02	3.455E-02	5.356E-02	5.437E-02	7.978E-02	1.041E-01	1.479E-01	2.575E-01	5.942E-01
1.11E 00--1.83E 00	2.877E-02	2.700E-02	3.007E-02	3.868E-02	3.840E-02	5.092E-02	5.731E-02	7.169E-02	3.567E-01
5.50E 00--1.11E 00	2.978E-02	2.842E-02	3.028E-02	3.663E-02	3.362E-02	4.313E-02	4.141E-02	4.800E-02	3.578E-01
1.11E 00--5.50E 01	3.534E-02	3.006E-02	3.600E-02	3.383E-02	3.695E-02	3.724E-02	3.844E-02	3.941E-02	4.023E-01
3.35E 00--1.11E 01	1.747E-01	1.419E-01	1.754E-01	1.812E-01	1.798E-01	1.839E-01	1.845E-01	1.854E-01	1.855E 00
5.83E 00--3.35E 02	1.405E-01	1.419E-01	1.432E-01	1.444E-01	1.455E-01	1.465E-01	1.471E-01	1.475E-01	1.476E 00
1.01E 00--5.83E 04	8.177E 00	8.243E 00	8.307E 00	8.367E 00	8.419E 00	8.462E 00	8.493E 00	8.511E 00	1.024E 02
2.90E 00--1.01E 04	3.459E 01	3.484E 01	3.508E 01	3.531E 01	3.550E 01	3.566E 01	3.578E 01	3.584E 01	4.334E 02
1.07E 00--2.90E 05	9.953E 01	1.002E 02	1.008E 02	1.015E 02	1.020E 02	1.024E 02	1.027E 02	1.029E 02	1.247E 03
3.06E 00--1.07E 05	2.623E 02	2.639E 02	2.655E 02	2.670E 02	2.683E 02	2.693E 02	2.700E 02	2.705E 02	3.287E 03
1.12E 00--3.06E 06	6.939E 02	6.980E 02	7.019E 02	7.056E 02	7.087E 02	7.113E 02	7.131E 02	7.142E 02	8.697E 03
4.14E 00--1.12E 06	1.502E 03	1.510E 03	1.519E 03	1.526E 03	1.532E 03	1.538E 03	1.541E 03	1.544E 03	1.883E 04
0.0	2.154E 03	2.165E 03	2.176E 03	2.186E 03	2.194E 03	2.200E 03	2.206E 03	2.206E 03	2.702E 04

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*22 FLUENCE A 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9854	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	7.146E-04	7.417E-04	8.457E-04	1.022E-03	1.238E-03	1.482E-03	1.762E-03	2.107E-03	2.574E-03
2.46E 00--3.01E 00	1.724E-02	1.719E-02	1.702E-02	1.670E-02	1.628E-02	1.586E-02	1.559E-02	1.570E-02	1.651E-02
2.33E 00--2.46E 00	2.704E-02	2.691E-02	2.641E-02	2.560E-02	2.477E-02	2.421E-02	2.427E-02	2.534E-02	2.791E-02
1.83E 00--2.33E 00	2.453E-02	2.451E-02	2.447E-02	2.451E-02	2.479E-02	2.550E-02	2.682E-02	2.892E-02	3.200E-02
1.11E 00--1.83E 00	2.095E-02	2.098E-02	2.115E-02	2.150E-02	2.208E-02	2.296E-02	2.420E-02	2.585E-02	2.799E-02
5.09E 01--1.11E 00	2.789E-02	2.789E-02	2.814E-02	2.863E-02	2.936E-02	3.035E-02	3.163E-02	3.325E-02	3.523E-02
1.11E 01--5.09E 01	4.005E-02	4.011E-02	4.036E-02	4.083E-02	4.151E-02	4.239E-02	4.349E-02	4.479E-02	4.628E-02
3.35E 02--1.11E 01	2.492E-01	2.494E-01	2.502E-01	2.518E-01	2.539E-01	2.567E-01	2.601E-01	2.639E-01	2.682E-01
5.83E 04--3.35E 02	2.120E-01	2.121E-01	2.126E-01	2.136E-01	2.150E-01	2.167E-01	2.187E-01	2.210E-01	2.236E-01
1.01E 04--5.83E 04	1.257E 01	1.257E 01	1.260E 01	1.265E 01	1.272E 01	1.281E 01	1.291E 01	1.303E 01	1.316E 01
2.90E 05--1.01E 04	5.376E 01	5.378E 01	5.389E 01	5.408E 01	5.436E 01	5.470E 01	5.511E 01	5.557E 01	5.607E 01
1.07E 05--2.90E 05	1.557E 02	1.557E 02	1.560E 02	1.566E 02	1.573E 02	1.583E 02	1.594E 02	1.607E 02	1.620E 02
3.06E 06--1.07E 05	4.132E 02	4.134E 02	4.141E 02	4.154E 02	4.173E 02	4.197E 02	4.225E 02	4.256E 02	4.290E 02
1.12E 06--3.06E 06	1.099E 03	1.099E 03	1.101E 03	1.104E 03	1.109E 03	1.115E 03	1.122E 03	1.130E 03	1.139E 03
4.14E 07--1.12E 06	2.389E 03	2.390E 03	2.394E 03	2.401E 03	2.411E 03	2.423E 03	2.438E 03	2.454E 03	2.472E 03
0.0	3.447E 03	3.449E 03	3.455E 03	3.465E 03	3.479E 03	3.495E 03	3.514E 03	3.534E 03	3.556E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	3.708E-03	4.144E-03	7.182E-03	1.133E-02	2.162E-02	4.243E-02	1.158E-01	8.480E-01	2.705E-01
2.46E 00--3.01E 00	1.655E-02	2.392E-02	2.773E-02	4.160E-02	6.318E-02	1.052E-01	2.271E-01	1.484E 00	6.716E-01
2.33E 00--2.46E 00	3.859E-02	3.533E-02	5.787E-02	6.962E-02	1.108E-01	1.682E-01	3.422E-01	1.874E 00	1.015E 00
1.83E 00--2.33E 00	3.301E-02	4.516E-02	4.804E-02	6.461E-02	7.820E-02	1.111E-01	1.628E-01	2.825E-01	6.140E-01
1.11E 00--1.83E 00	2.883E-02	3.576E-02	3.723E-02	4.525E-02	5.044E-02	6.138E-02	7.296E-02	9.034E-02	4.299E-01
5.09E 01--1.11E 00	3.631E-02	4.171E-02	4.306E-02	4.887E-02	5.202E-02	5.832E-02	6.306E-02	6.881E-02	4.929E-01
1.11E 01--5.09E 01	4.579E-01	5.156E-02	5.040E-02	5.513E-02	5.496E-02	5.867E-02	5.912E-02	6.122E-02	6.028E-01
3.35E 02--1.11E 01	2.709E-01	2.787E-01	2.814E-01	2.874E-01	2.906E-01	2.947E-01	2.971E-01	2.989E-01	3.412E 00
5.83E 04--3.35E 02	2.262E-01	2.289E-01	2.316E-01	2.341E-01	2.363E-01	2.382E-01	2.395E-01	2.403E-01	2.832E 00
1.01E 04--5.83E 04	1.330E 01	1.344E 01	1.357E 01	1.369E 01	1.380E 01	1.389E 01	1.396E 01	1.400E 01	1.665E 02
2.90E 05--1.01E 04	5.659E 01	5.711E 01	5.762E 01	5.809E 01	5.851E 01	5.884E 01	5.909E 01	5.923E 01	7.086E 02
1.07E 05--2.90E 05	1.635E 02	1.649E 02	1.663E 02	1.676E 02	1.687E 02	1.696E 02	1.703E 02	1.707E 02	2.047E 03
3.06E 06--1.07E 05	4.326E 02	4.361E 02	4.395E 02	4.427E 02	4.454E 02	4.477E 02	4.493E 02	4.502E 02	5.418E 03
1.12E 06--3.06E 06	1.148E 03	1.156E 03	1.165E 03	1.173E 03	1.180E 03	1.185E 03	1.189E 03	1.192E 03	1.438E 04
4.14E 07--1.12E 06	2.490E 03	2.508E 03	2.525E 03	2.542E 03	2.556E 03	2.568E 03	2.576E 03	2.581E 03	3.119E 04
0.0	3.579E 03	3.603E 03	3.626E 03	3.647E 03	3.665E 03	3.679E 03	3.688E 03	3.693E 03	4.486E 04

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5804	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.10E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.10E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	5.318E-04	5.407E-04	6.192E-04	7.373E-04	8.827E-04	1.052E-03	1.253E-03	1.507E-03	1.864E-03
2.46E 00--3.01E 00	1.152E-02	1.140E-02	1.138E-02	1.117E-02	1.091E-02	1.067E-02	1.057E-02	1.080E-02	1.163E-02
2.35E 00--2.46E 00	1.835E-02	1.828E-02	1.804E-02	1.770E-02	1.744E-02	1.749E-02	1.808E-02	1.953E-02	2.222E-02
1.83E 00--2.35E 00	2.043E-02	2.044E-02	2.053E-02	2.069E-02	2.112E-02	2.195E-02	2.335E-02	2.547E-02	2.852E-02
1.11E 00--1.83E 00	2.225E-02	2.230E-02	2.251E-02	2.295E-02	2.367E-02	2.474E-02	2.622E-02	2.820E-02	3.077E-02
5.50E-01--1.11E 00	3.558E-02	3.567E-02	3.604E-02	3.677E-02	3.785E-02	3.932E-02	4.125E-02	4.370E-02	4.675E-02
1.11E-01--5.50E-01	6.012E-02	6.023E-02	6.068E-02	6.153E-02	6.274E-02	6.435E-02	6.635E-02	6.873E-02	7.151E-02
3.35E-02--1.11E-01	4.132E-01	4.136E-01	4.154E-01	4.186E-01	4.232E-01	4.291E-01	4.362E-01	4.444E-01	4.536E-01
5.83E-04--3.35E-02	3.629E-01	3.629E-01	3.643E-01	3.663E-01	3.692E-01	3.730E-01	3.776E-01	3.828E-01	3.886E-01
1.01E-04--5.83E-04	2.195E 01	2.197E 01	2.203E 01	2.214E 01	2.231E 01	2.251E 01	2.276E 01	2.304E 01	2.335E 01
2.90E-05--1.01E-04	9.510E 01	9.516F 01	9.542E 01	9.589E 01	9.653E 01	9.726E 01	9.835E 01	9.946E 01	1.007E 02
1.07E-05--2.90E-05	2.779E 02	2.780F 02	2.788E 02	2.801F 02	2.819E 02	2.842E 02	2.870E 02	2.901E 02	2.935E 02
3.06E-06--1.07E-05	7.448E 02	7.452E 02	7.470E 02	7.504E 02	7.550E 02	7.609E 02	7.679E 02	7.759E 02	7.845E 02
1.12E-06--3.06E-06	1.995E 03	1.996E 03	2.000E 03	2.021E 03	2.050E 03	2.086E 03	2.130E 03	2.174E 03	2.219E 03
4.14E-07--1.12E-06	4.364E 03	4.366E 03	4.376E 03	4.394E 03	4.419E 03	4.450E 03	4.488E 03	4.530E 03	4.576E 03
0.0	6.340E 03	6.344E 03	6.358E 03	6.384E 03	6.418E 03	6.460E 03	6.508E 03	6.562E 03	6.620E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.10E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.10E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	2.304E-03	3.488E-03	5.163E-03	8.949F-03	1.612E-02	3.139E-02	7.132E-02	4.395E-01	1.827E-01
2.46E 00--3.01E 00	1.389E-02	1.632E-02	2.284E-02	3.223E-02	5.072E-02	8.558E-02	1.749E-01	9.768E-01	4.849E-01
2.35E 00--2.46E 00	2.535E-02	3.527E-02	4.472E-02	6.543E-02	9.527E-02	1.543E-01	2.910E-01	1.386E 00	8.157E-01
1.83E 00--2.35E 00	3.364E-02	3.752E-02	4.734E-02	5.772E-02	7.555E-02	1.017E-01	1.521E-01	2.674E-01	5.623E-01
1.11E 00--1.83E 00	3.458E-02	3.776E-02	4.381E-02	4.985E-02	5.892E-02	6.947E-02	8.415E-02	1.028E-01	4.810E-01
5.50E-01--1.11E 00	5.086E-02	5.472E-02	6.071E-02	6.663E-02	7.440E-02	8.236E-02	9.141F-02	9.957E-02	6.591E-01
1.11E-01--5.50E-01	7.545E-02	7.757E-02	8.232E-02	8.543E-02	8.997E-02	9.313E-02	9.660E-02	9.853E-02	9.822E-01
3.35E-02--1.11E-01	4.643E-01	4.731E-01	4.844E-01	4.937E-01	5.034E-01	5.108E-01	5.169E-01	5.202E-01	5.196E 00
5.83E-04--3.35E-02	3.945E-01	4.005E-01	4.070E-01	4.129E-01	4.181E-01	4.224E-01	4.256E-01	4.275E-01	4.936E 00
1.01E-04--5.83E-04	2.367E 01	2.400E 01	2.432E 01	2.459E 01	2.490E 01	2.512E 01	2.528E 01	2.537E 01	2.941E 02
2.90E-05--2.90E-05	1.019E 02	1.032E 02	1.045E 02	1.057E 02	1.067E 02	1.076E 02	1.084E 02	1.086E 02	1.275E 03
3.06E-06--1.07E-05	2.971E 02	3.007E 02	3.042E 02	3.075E 02	3.104E 02	3.128E 02	3.145E 02	3.155E 02	3.717E 03
1.12E-06--3.06E-06	7.935E 02	8.026E 02	8.114E 02	8.197E 02	8.269E 02	8.329E 02	8.372E 02	8.397E 02	9.929E 03
4.14E-07--1.12E-06	2.119E 03	2.142E 03	2.165E 03	2.185E 03	2.204E 03	2.219E 03	2.230E 03	2.236E 03	2.652E 04
0.0	4.624E 03	4.672E 03	4.719E 03	4.763E 03	4.801E 03	4.832E 03	4.855E 03	4.868E 03	5.788E 04
	6.681E 03	6.744E 03	6.806E 03	6.863E 03	6.913E 03	6.951E 03	6.977E 03	6.991E 03	8.368E 04



(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	3.560E-04	3.669E-04	4.095E-04	4.821E-04	5.728E-04	6.809E-04	8.124E-04	9.849E-04	1.233E-03
2.35E 00---2.46E 00	7.56E-03	7.140E-03	7.075E-03	6.957E-03	6.816E-03	6.703E-03	6.713E-03	6.984E-03	7.708E-03
1.83E 00---2.35E 00	1.159E-02	1.156E-02	1.153E-02	1.142E-02	1.148E-02	1.180E-02	1.256E-02	1.395E-02	1.629E-02
1.11E 00---1.83E 00	1.941E-02	1.543E-02	1.535E-02	1.578E-02	1.621E-02	1.700E-02	1.823E-02	2.005E-02	2.264E-02
5.50E 01---1.11E 00	3.611E-02	3.621E-02	3.601E-02	3.744E-02	3.864E-02	4.029E-02	4.246E-02	4.524E-02	4.871E-02
1.12E 00---5.50E 01	6.914E-02	6.928E-02	6.985E-02	7.094E-02	7.250E-02	7.456E-02	7.714E-02	8.024E-02	8.387E-02
3.35E 02---1.12E 00	5.159E-01	5.165E-01	5.193E-01	5.236E-01	5.302E-01	5.387E-01	5.490E-01	5.610E-01	5.744E-01
5.83E 04---3.35E 02	4.645E-01	4.649E-01	4.666E-01	4.698E-01	4.743E-01	4.801E-01	4.870E-01	4.949E-01	5.037E-01
1.01E 04---5.83E-04	2.865E 02	2.867E 02	2.877E 02	2.895E 02	2.920E 02	2.952E 02	2.991E 02	3.035E 02	3.083E 02
2.90E 05---1.01E-04	1.256E 02	1.257E 02	1.261E 02	1.268E 02	1.278E 02	1.292E 02	1.307E 02	1.325E 02	1.345E 02
1.07E 05---2.90E-05	3.703E 02	3.703E 02	3.715E 02	3.736E 02	3.765E 02	3.803E 02	3.848E 02	3.895E 02	3.954E 02
3.06E 06---1.07E-05	1.001E 03	1.002E 03	1.005E 03	1.011E 03	1.019E 03	1.028E 03	1.039E 03	1.053E 03	1.067E 03
1.12E 06---3.06E-06	2.701E 03	2.703E 03	2.711E 03	2.725E 03	2.744E 03	2.770E 03	2.800E 03	2.834E 03	2.871E 03
4.14E 07---1.12E-06	5.946E 03	5.950E 03	5.967E 03	5.997E 03	6.039E 03	6.092E 03	6.156E 03	6.228E 03	6.306E 03
0.0 ---4.14E-07	8.700E 03	8.730E 03	8.730E 03	8.773E 03	8.831E 03	8.902E 03	8.984E 03	9.078E 03	9.176E 03

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	1.639E-03	2.304E-03	3.614E-03	6.103E-03	1.101E-02	2.091E-02	4.448E-02	2.346E-01	9.590E-02
2.35E 00---2.46E 00	9.110E-03	1.179E-02	1.620E-02	2.397E-02	3.769E-02	6.429E-02	1.280E-01	6.247E-01	3.328E-01
1.83E 00---2.35E 00	2.016E-02	2.52E-02	3.459E-02	5.085E-02	7.700E-02	1.447E-01	2.337E-01	9.855E-01	6.159E-01
1.11E 00---1.83E 00	3.101E-02	3.310E-02	3.807E-02	4.790E-02	6.197E-02	8.400E-02	1.231E-01	2.137E-01	4.520E-01
5.50E 01---1.11E 00	5.296E-02	5.828E-02	6.408E-02	6.57E-02	5.462E-02	6.490E-02	7.780E-02	9.396E-02	4.400E-01
1.11E 01---5.50E 01	8.787E-02	9.752E-02	1.029E-01	1.204E-02	8.063E-02	9.033E-02	1.005E-01	1.098E-01	7.074E-01
3.35E 02---1.11E 01	5.886E-01	6.042E-01	6.134E-01	6.344E-01	6.479E-01	6.596E-01	6.683E-01	6.735E-01	7.363E 00
5.83E 04---3.35E 02	1.530E-01	5.226E-01	5.321E-01	5.412E-01	5.493E-01	5.561E-01	5.61E-01	5.640E-01	6.413E 00
1.01E 04---5.83E-04	3.134E 01	3.187E 01	3.238E 01	3.287E 01	3.331E 01	3.367E 01	3.393E 01	3.409E 01	3.918E 02
2.90E 05---1.01E-04	1.365E 02	1.367E 02	1.407E 02	1.427E 02	1.444E 02	1.458E 02	1.469E 02	1.475E 02	1.707E 03
1.07E 05---2.90E-05	4.013E 02	4.073E 02	4.131E 02	4.187E 02	4.235E 02	4.276E 02	4.305E 02	4.322E 02	5.018E 03
1.06E 06---1.07E-05	1.082E 03	1.097E 03	1.112E 03	1.126E 03	1.139E 03	1.157E 03	1.161E 03	1.161E 03	1.353E 04
1.12E 06---3.06E-06	2.909E 03	2.949E 03	2.987E 03	3.023E 03	3.055E 03	3.081E 03	3.101E 03	3.112E 03	3.639E 04
4.14E 07---1.12E-06	6.388E 03	6.471E 03	6.552E 03	6.628E 03	6.695E 03	6.750E 03	6.790E 03	6.812E 03	7.990E 04
0.0 ---4.14E-07	9.283E 03	9.393E 03	9.501E 03	9.601E 03	9.688E 03	9.757E 03	9.804E 03	9.831E 03	1.162E 05

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 500.0 METERS

(NEUTRONS/NEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9854	ANGLE 2 MU=0.9854	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22F 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.35E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	2.243E-04	2.306E-04	2.555E-04	2.984E-04	3.526E-04	4.186E-04	5.007E-04	6.109E-04	7.722E-04
2.46E 00---3.01E 00	4.269E-03	4.261E-03	4.228E-03	4.166E-03	4.098E-03	4.059E-03	4.116E-03	4.365E-03	4.939E-03
2.35E 00---2.46E 00	7.047E-03	7.046E-03	7.025E-03	7.110E-03	7.290E-03	7.677E-03	8.381E-03	9.543E-03	1.138E-02
1.83E 00---2.35E 00	1.101E-02	1.103F-02	1.113E-02	1.135E-02	1.175E-02	1.239E-02	1.338E-02	1.482E-02	1.685E-02
1.11E 00---1.83E 00	1.588E-02	1.593E-02	1.611E-02	1.648E-02	1.708E-02	1.795E-02	1.916E-02	2.076E-02	2.285E-02
5.50E-01---1.11E 00	3.224E-02	3.234E-02	3.274E-02	3.351E-02	3.466E-02	3.625E-02	3.834E-02	4.101E-02	4.439E-02
1.11E-01---5.50E-01	6.831E-02	6.846E-02	6.907E-02	7.023E-02	7.189E-02	7.409E-02	7.685E-02	8.019E-02	8.410E-02
3.35E-02---1.11E-01	5.459E-01	5.466E-01	5.495E-01	5.549E-01	5.626E-01	5.726E-01	5.846E-01	5.987E-01	6.144E-01
5.83E-04---3.35E-02	5.021E-01	5.026E-01	5.047E-01	5.085E-01	5.139E-01	5.209E-01	5.292E-01	5.389E-01	5.495E-01
1.07E-04---5.83E-04	3.146E 01	3.149E 01	3.161E 01	3.184E 01	3.215E 01	3.255E 01	3.302E 01	3.357E 01	3.418E 01
2.90E-05---1.07E-04	1.394E 02	1.395E 02	1.400E 02	1.409E 02	1.422E 02	1.439E 02	1.459E 02	1.481E 02	1.506E 02
1.07E-05---2.90E-05	4.139E 02	4.142E 02	4.157E 02	4.183F 02	4.221E 02	4.259E 02	4.326E 02	4.391E 02	4.463E 02
3.06E-06---1.07E-05	1.130E 03	1.131F 03	1.135E 03	1.142E 03	1.151E 03	1.164E 03	1.179E 03	1.196E 03	1.215E 03
1.12E-06---3.06E-06	3.067E 03	3.070E 03	3.080E 03	3.098E 03	3.124E 03	3.157E 03	3.196E 03	3.241E 03	3.290E 03
4.14E-07---1.12E-06	6.794E 03	6.799E 03	6.820E 03	6.860E 03	6.915E 03	6.986F 03	7.070E 03	7.165E 03	7.270E 03
0.0 ---4.14E-07	1.001E 04	1.001E 04	1.004E 04	1.010E 04	1.018E 04	1.027E 04	1.038E 04	1.051E 04	1.064E 04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9854	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	1.031E-03	1.486E-03	2.328E-03	3.937E-03	7.027E-03	1.314E-02	2.685E-02	1.134E-01	5.545E-02
2.46E 00---3.01E 00	6.032E-03	7.940E-03	1.121E-02	1.682E-02	2.681E-02	4.391E-02	9.021E-02	3.935E-01	2.220E-01
2.35E 00---2.46E 00	1.424E-02	1.875E-02	2.594E-02	3.774E-02	5.787E-02	9.305E-02	1.781E-01	5.855E-01	4.448E-01
1.83E 00---2.35E 00	1.968E-02	2.357E-02	2.898E-02	3.677E-02	4.753E-02	6.421E-02	9.282E-02	1.569E-01	3.394E-01
1.11E 00---1.83E 00	2.552E-02	2.890E-02	3.321E-02	3.864E-02	4.546E-02	5.393E-02	6.427E-02	7.643E-02	3.617E-01
5.50E-01---1.11E 00	4.858E-02	5.370E-02	5.993E-02	6.727E-02	7.580E-02	8.531E-02	9.522E-02	1.040E-01	6.519E-01
1.11E-01---5.50E-01	8.860E-02	9.358E-02	9.903E-02	1.047E-01	1.104E-01	1.157E-01	1.202E-01	1.230E-01	1.121E 00
3.35E-02---1.11E-01	6.316E-01	6.496E-01	6.679E-01	6.857E-01	7.020E-01	7.159E-01	7.265E-01	7.326E-01	7.897E 00
5.83E-04---3.35E-02	5.608E-01	5.726E-01	5.843E-01	5.954E-01	6.054E-01	6.138E-01	6.200E-01	6.236E-01	7.009E 00
1.01E-04---5.83E-04	3.482E 01	3.548F 01	3.613E 01	3.675E 01	3.730E 01	3.776E 01	3.810E 01	3.829E 01	4.352E 02
2.90E-05---1.01E-04	1.532E 02	1.559E 02	1.586E 02	1.611E 02	1.634E 02	1.652E 02	1.666E 02	1.674E 02	1.915E 03
1.07E-05---2.90E-05	4.539E 02	4.617E 02	4.693E 02	4.765E 02	4.829E 02	4.882E 02	4.921E 02	4.943E 02	5.674E 03
3.06E-06---1.07E-05	1.235E 03	1.255E 03	1.275E 03	1.293E 03	1.310E 03	1.324E 03	1.334E 03	1.339E 03	1.543E 04
1.12E-06---3.06E-06	3.344E 03	3.346E 03	3.446E 03	3.494E 03	3.537E 03	3.572E 03	3.598E 03	3.612E 03	4.177E 04
4.14E-07---1.12E-06	7.380E 03	7.492E 03	7.602E 03	7.705E 03	7.796E 03	7.871E 03	7.926E 03	7.957E 03	9.227E 04
0.0 ---4.14E-07	1.079E 04	1.093E 04	1.108E 04	1.122E 04	1.134E 04	1.143E 04	1.150E 04	1.154E 04	1.349E 05

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	1.358E-04	1.394E-04	1.536E-04	1.782E-04	2.097E-04	2.489E-04	2.984E-04	3.662E-04	4.668E-04
2.46E 00--3.01E 00	2.481E-03	2.477E-03	2.461E-03	2.433E-03	2.405E-03	2.402E-03	2.469E-03	2.670E-03	3.097E-03
2.35E 00--2.46E 00	4.189E-03	4.157E-03	4.235E-03	4.334E-03	4.532E-03	4.882E-03	5.453E-03	6.341E-03	7.694E-03
1.83E 00--2.35E 00	7.594E-03	7.613E-03	7.700E-03	7.885E-03	8.201E-03	8.699E-03	9.441E-03	1.051E-02	1.202E-02
1.11E 00--1.83E 00	1.201E-02	1.204E-02	1.213E-02	1.243E-02	1.295E-02	1.364E-02	1.458E-02	1.585E-02	1.748E-02
5.70E-01--1.11E 00	2.653E-02	2.661E-02	2.686E-02	2.763E-02	2.862E-02	3.000E-02	3.182E-02	3.416E-02	3.711E-02
1.11E-01--5.50E-01	6.113E-02	6.127E-02	6.185E-02	6.294E-02	6.451E-02	6.660E-02	6.921E-02	7.239E-02	7.612E-02
3.35E-02--1.11E-01	5.177E-01	5.184E-01	5.214E-01	5.265E-01	5.347E-01	5.448E-01	5.571E-01	5.715E-01	5.877E-01
5.83E-04--3.35E-02	4.846E-01	4.851E-01	4.873E-01	4.913E-01	4.970E-01	5.042E-01	5.130E-01	5.231E-01	5.342E-01
1.01E-04--5.83E-04	3.079E-01	3.082E-01	3.095E-01	3.118E-01	3.152E-01	3.194E-01	3.245E-01	3.304E-01	3.369E-01
2.90E-05--1.01E-04	1.376E-02	1.377E-02	1.383E-02	1.393E-02	1.407E-02	1.425E-02	1.446E-02	1.471E-02	1.478E-02
1.07E-05--2.90E-05	4.113E-02	4.117E-02	4.133E-02	4.162E-02	4.203E-02	4.255E-02	4.318E-02	4.390E-02	4.468E-02
3.06E-06--1.07E-05	1.132E-03	1.133E-03	1.137E-03	1.145E-03	1.152E-03	1.169E-03	1.186E-03	1.205E-03	1.226E-03
1.12E-06--3.06E-06	3.091E-03	3.093E-03	3.105E-03	3.125E-03	3.154E-03	3.191E-03	3.234E-03	3.285E-03	3.339E-03
4.14E-07--1.12E-06	6.882E-03	6.888E-03	6.912E-03	6.956E-03	7.019E-03	7.098E-03	7.193E-03	7.301E-03	7.419E-03
0.0	1.020E-04	1.021E-04	1.024E-04	1.030E-04	1.039E-04	1.050E-04	1.062E-04	1.076E-04	1.092E-04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	6.298E-04	5.152E-04	1.441E-03	2.430E-03	4.302E-03	7.929E-03	1.574E-02	5.749E-02	3.157E-02
2.46E 00--3.01E 00	3.879E-03	5.228E-03	7.518E-03	1.143E-02	1.843E-02	3.170E-02	4.71E-02	2.450E-01	1.450E-01
2.35E 00--2.46E 00	9.769E-03	1.301E-02	1.822E-02	2.385E-02	4.174E-02	6.945E-02	4.307E-01	4.693E-01	3.119E-01
1.83E 00--2.35E 00	1.412E-02	1.701E-02	2.103E-02	2.665E-02	3.471E-02	4.578E-02	6.822E-02	1.095E-01	2.437E-01
1.11E 00--1.83E 00	1.558E-02	2.251E-02	2.563E-02	2.990E-02	3.521E-02	4.171E-02	4.941E-02	5.795E-02	2.776E-01
5.50E-01--1.11E 00	4.079E-02	4.531E-02	5.080E-02	5.733E-02	6.489E-02	7.330E-02	8.197E-02	8.944E-02	5.498E-01
1.11E-01--5.50E-01	8.041E-02	8.522E-02	9.045E-02	9.595E-02	1.015E-01	1.066E-01	1.108E-01	1.135E-01	1.018E 00
3.35E-02--1.11E-01	6.053E-01	6.239E-01	6.428E-01	6.612E-01	6.781E-01	6.926E-01	7.035E-01	7.099E-01	7.568E 00
5.83E-04--3.35E-02	5.462E-01	5.586E-01	5.709E-01	5.827E-01	5.933E-01	6.023E-01	6.089E-01	6.127E-01	6.824E 00
1.01E-04--5.83E-04	5.438E-01	5.509E-01	5.579E-01	5.643E-01	5.706E-01	5.756E-01	5.793E-01	5.815E-01	4.295E 02
2.90E-05--1.01E-04	1.526E-02	1.556E-02	1.585E-02	1.613E-02	1.638E-02	1.658E-02	1.673E-02	1.682E-02	1.907E 02
1.07E-05--2.90E-05	4.552E-02	4.638E-02	4.723E-02	4.803E-02	4.875E-02	4.934E-02	4.978E-02	5.003E-02	5.688E 03
3.06E-06--1.07E-05	1.248E-03	1.271E-03	1.293E-03	1.314E-03	1.333E-03	1.348E-03	1.360E-03	1.366E-03	1.560E 04
1.12E-06--3.06E-06	3.398E-03	3.457E-03	3.516E-03	3.571E-03	3.620E-03	3.660E-03	3.690E-03	3.707E-03	4.246E 04
4.14E-07--1.12E-06	7.545E-03	7.672E-03	7.798E-03	7.914E-03	8.021E-03	8.108E-03	8.172E-03	8.208E-03	9.430E 04
0.0	1.08E-04	1.126E-04	1.143E-04	1.158E-04	1.172E-04	1.183E-04	1.191E-04	1.196E-04	1.386E 05

## 2.35 TO 4.065 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.836	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	2.612E-05	2.673E-05	2.916E-05	3.340E-05	3.903E-05	4.631E-05	5.590E-05	6.950E-05	9.026E-05
2.35E 00---2.46E 00	4.448E-04	4.447E-04	4.442E-04	4.439E-04	4.469E-04	4.603E-04	4.932E-04	5.703E-04	7.100E-04
1.83E 00---2.35E 00	8.207E-04	8.279E-04	8.589E-04	9.207E-04	1.018E-03	1.166E-03	1.375E-03	1.679E-03	2.118E-03
1.11E 00---1.83E 00	2.205E-03	2.214E-03	2.251E-03	2.327E-03	2.447E-03	2.626E-03	2.885E-03	3.251E-03	3.765E-03
5.50E 01---1.11E 00	4.180E-03	4.193E-03	4.249E-03	4.360E-03	4.535E-03	4.792E-03	5.145E-03	5.615E-03	6.226E-03
1.11E 01---5.50E 01	1.108E-02	1.112E-02	1.129E-02	1.159E-02	1.204E-02	1.268E-02	1.353E-02	1.462E-02	1.601E-02
3.35E 02---1.11E 01	3.072E-02	3.079E-02	3.112E-02	3.172E-02	3.259E-02	3.376E-02	3.522E-02	3.701E-02	3.912E-02
5.83E 04---3.35E 02	2.961E-01	2.965E-01	2.985E-01	3.023E-01	3.071E-01	3.137E-01	3.217E-01	3.312E-01	3.418E-01
1.01E 04---5.83E 04	2.879E-01	2.882E-01	2.897E-01	2.924E-01	2.963E-01	3.012E-01	3.072E-01	3.142E-01	3.219E-01
2.90E 05---1.01E 04	1.885E 01	1.887E 01	1.896E 01	1.913E 01	1.936E 01	1.957E 01	2.003E 01	2.045E 01	2.092E 01
1.07E 05---2.90E 05	8.590E 01	8.600E 01	8.639E 01	8.712E 01	8.814E 01	8.945E 01	9.103E 01	9.255E 01	9.486E 01
3.04E 06---1.07E 05	2.607E 02	2.610E 02	2.621E 02	2.643E 02	2.674E 02	2.713E 02	2.760E 02	2.814E 02	2.876E 02
1.12E 06---3.04E 06	7.302E 02	7.309E 02	7.342E 02	7.401E 02	7.484E 02	7.591E 02	7.719E 02	7.866E 02	8.029E 02
4.14E 07---1.12E 06	2.021E 03	2.024E 03	2.032E 03	2.048E 03	2.071E 03	2.099E 03	2.134E 03	2.174E 03	2.217E 03
0.0	4.559E 03	4.563E 03	4.582E 03	4.617E 03	4.667E 03	4.730E 03	4.804E 03	4.893E 03	4.989E 03
	6.849E 03	6.856E 03	6.884E 03	6.934E 03	7.004E 03	7.091E 03	7.192E 03	7.309E 03	7.437E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2815	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	1.244E-04	1.838E-04	2.913E-04	4.876E-04	8.460E-04	1.509E-03	2.816E-03	5.444E-03	5.436E-03
2.35E 00---2.46E 00	9.513E-04	1.356E-03	2.039E-03	3.207E-03	5.281E-03	9.181E-03	1.759E-02	5.691E-02	3.741E-02
1.83E 00---2.35E 00	2.772E-03	3.795E-03	5.468E-03	8.326E-03	1.345E-02	2.325E-02	4.477E-02	1.410E-01	9.612E-02
1.11E 00---1.83E 00	4.473E-03	5.457E-03	6.820E-03	8.715E-03	1.138E-02	1.522E-02	2.112E-02	3.122E-02	7.705E-02
5.50E 01---1.11E 00	7.010E-03	8.088E-03	9.270E-03	1.085E-02	1.278E-02	1.506E-02	1.758E-02	1.999E-02	9.923E-02
1.11E 01---5.50E 01	1.776E-02	1.992E-02	2.253E-02	2.570E-02	3.044E-02	3.335E-02	3.737E-02	4.061E-02	2.414E-01
3.35E 02---1.11E 01	4.156E-02	4.432E-02	4.733E-02	5.050E-02	5.367E-02	5.662E-02	5.902E-02	6.053E-02	5.275E-01
5.83E 04---3.35E 02	3.535E-01	3.659E-01	3.782E-01	3.909E-01	4.023E-01	4.121E-01	4.194E-01	4.238E-01	4.420E 00
1.01E 04---5.83E 04	3.302E-01	3.388E-01	3.475E-01	3.557E-01	3.632E-01	3.695E-01	3.742E-01	3.769E-01	4.124E 00
2.90E 05---1.01E 04	2.142E 01	2.194E 01	2.245E 01	2.295E 01	2.339E 01	2.376E 01	2.404E 01	2.420E 01	2.675E 02
1.07E 05---2.90E 05	9.701E 01	9.822E 01	1.014E 02	1.035E 02	1.054E 02	1.070E 02	1.081E 02	1.088E 02	1.212E 03
3.06E 06---1.07E 05	2.938E 02	3.004E 02	3.069E 02	3.131E 02	3.197E 02	3.234E 02	3.268E 02	3.288E 02	3.669E 03
1.12E 06---3.06E 06	8.202E 02	8.381E 02	8.558E 02	8.726E 02	8.876E 02	9.003E 02	9.094E 02	9.147E 02	1.025E 04
4.14E 07---1.12E 06	2.264E 03	2.312E 03	2.359E 03	2.404E 03	2.446E 03	2.476E 03	2.502E 03	2.516E 03	2.828E 04
0.0	5.091E 03	5.196E 03	5.300E 03	5.398E 03	5.486E 03	5.555E 03	5.612E 03	5.643E 03	6.340E 04
	7.575E 03	7.718E 03	7.860E 03	7.994E 03	8.112E 03	8.201E 03	8.276E 03	8.315E 03	9.469E 04

## 4 PI R\*2 FLUENCE AT 900.0 METERS

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI P\*2 FLUENCE AT 1200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	4.443E-06	4.537E-06	4.921E-06	5.597E-06	6.518E-06	7.740E-06	9.389E-06	1.178E-05	1.548E-05
2.46E 00--3.01E 00	7.398E-05	7.410E-05	7.459E-05	7.568E-05	7.806E-05	8.343E-05	9.480E-05	1.165E-04	1.547E-04
2.35E 00--2.46E 00	1.543E-04	1.569E-04	1.680E-04	1.887E-04	2.193E-04	2.628E-04	3.234E-04	4.083E-04	5.290E-04
1.83E 00--2.35E 00	5.775E-04	5.803E-04	5.925E-04	6.164E-04	6.534E-04	7.075E-04	7.836E-04	8.902E-04	1.038E-03
1.11E 00--1.83E 00	1.220E-03	1.224E-03	1.240E-03	1.274E-03	1.327E-03	1.404E-03	1.510E-03	1.652E-03	1.837E-03
5.00E 01--1.11E 00	3.635E-03	3.648E-03	3.704E-03	3.810E-03	3.969E-03	4.191E-03	4.486E-03	4.869E-03	5.358E-03
1.11E 01--5.00E 01	1.138E-02	1.141E-02	1.154E-02	1.177E-02	1.211E-02	1.257E-02	1.314E-02	1.385E-02	1.468E-02
3.35E 02--1.11E 01	1.195E-01	1.197E-01	1.206E-01	1.221E-01	1.238E-01	1.272E-01	1.306E-01	1.347E-01	1.394E-01
5.83E 04--3.35E 02	1.190E-01	1.192E-01	1.199E-01	1.211E-01	1.228E-01	1.250E-01	1.276E-01	1.307E-01	1.342E-01
1.01E 04--5.83E 04	7.945E 00	7.955E 00	7.996E 00	8.072E 00	8.179E 00	8.318E 00	8.484E 00	8.678E 00	8.892E 00
2.90E 05--1.01E 04	3.657E 01	3.672E 01	3.690E 01	3.723E 01	3.771E 01	3.832E 01	3.905E 01	3.990E 01	4.083E 01
1.07E 05--2.90E 05	1.124E 02	1.125E 02	1.131E 02	1.141E 02	1.155E 02	1.173E 02	1.196E 02	1.221E 02	1.249E 02
3.04E 06--1.07E 05	3.185E 02	3.168E 02	3.148E 02	3.232E 02	3.271E 02	3.322E 02	3.384E 02	3.454E 02	3.532E 02
1.12E 06--3.04E 06	8.986E 02	8.906E 02	8.948E 02	9.025E 02	9.133E 02	9.272E 02	9.439E 02	9.631E 02	9.844E 02
4.14E 07--1.12E 06	2.023E 03	2.025E 03	2.035E 03	2.052E 03	2.076E 03	2.107E 03	2.144E 03	2.187E 03	2.234E 03
0.0 --4.14E-07	3.063E 03	3.071E 03	3.085E 03	3.110E 03	3.144E 03	3.186E 03	3.237E 03	3.295E 03	3.359E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	2.160E-05	3.222E-05	5.116E-05	8.511E-05	1.456E-04	2.537E-04	4.536E-04	1.001E-03	8.712E-04
2.46E 00--3.01E 00	2.189E-04	3.254E-04	5.040E-04	8.112E-04	1.356E-03	2.374E-03	4.503E-03	1.272E-02	8.912E-03
2.35E 00--2.46E 00	7.071E-04	9.858E-04	1.451E-03	2.276E-03	3.803E-03	6.810E-03	1.347E-02	3.961E-02	2.680E-02
1.83E 00--2.35E 00	1.245E-03	1.530E-03	1.925E-03	2.470E-03	3.244E-03	4.280E-03	5.806E-03	8.233E-03	2.133E-02
1.11E 00--1.83E 00	2.073E-03	2.375E-03	2.753E-03	3.223E-03	3.790E-03	4.445E-03	5.134E-03	5.727E-03	2.926E-02
5.00E 01--1.11E 00	5.972E-03	6.755E-03	7.668E-03	8.785E-03	1.007E-02	1.149E-02	1.287E-02	1.533E-02	8.156E-02
1.11E 01--5.00E 01	1.565E-02	1.675E-02	1.795E-02	1.921E-02	2.048E-02	2.163E-02	2.261E-02	2.320E-02	1.989E-01
3.35E 02--1.11E 01	1.445E-01	1.499E-01	1.554E-01	1.609E-01	1.659E-01	1.702E-01	1.735E-01	1.754E-01	1.807E 00
5.83E 04--3.35E 02	1.379E-01	1.418E-01	1.457E-01	1.494E-01	1.528E-01	1.557E-01	1.578E-01	1.590E-01	1.722E 00
1.01E 04--5.83E 04	9.122E 00	9.361E 00	9.600E 00	9.828E 00	1.003E 01	1.021E 01	1.034E 01	1.041E 01	1.139E 02
2.90E 05--1.01E 04	4.184E 01	4.288E 01	4.392E 01	4.491E 01	4.575E 01	4.654E 01	4.709E 01	4.741E 01	5.225E 02
1.07E 05--2.90E 05	1.280E 02	1.311E 02	1.342E 02	1.372E 02	1.399E 02	1.421E 02	1.438E 02	1.447E 02	1.598E 03
3.04E 06--1.07E 05	3.616E 02	3.702E 02	3.788E 02	3.870E 02	3.943E 02	4.004E 02	4.050E 02	4.076E 02	4.515E 03
1.12E 06--3.04E 06	1.007E 03	1.031E 03	1.054E 03	1.076E 03	1.096E 03	1.112E 03	1.124E 03	1.131E 03	1.258E 04
4.14E 07--1.12E 06	2.284E 03	2.336E 03	2.388E 03	2.437E 03	2.480E 03	2.517E 03	2.544E 03	2.559E 03	2.853E 04
0.0 --4.14E-07	3.428E 03	3.469E 03	3.570E 03	3.638E 03	3.697E 03	3.746E 03	3.781E 03	3.801E 03	4.284E 04

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9854	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	7.046E-07	7.187E-07	7.767E-07	8.795E-07	1.022E-06	1.215E-06	1.479E-06	1.867E-06	2.474E-06
2.46E 00---3.01E 00	1.189E-05	1.194E-05	1.215E-05	1.258E-05	1.339E-05	1.498E-05	1.805E-05	2.363E-05	3.317E-05
2.35E 00---2.46E 00	2.897E-05	2.974E-05	3.289E-05	3.861E-05	4.674E-05	5.801E-05	7.347E-05	9.501E-05	1.254E-04
1.83E 00---2.35E 00	1.429E-04	1.437E-04	1.472E-04	1.540E-04	1.643E-04	1.791E-04	1.996E-04	2.281E-04	2.677E-04
1.11E 00---1.83E 00	3.243E-04	3.253E-04	3.298E-04	3.388E-04	3.530E-04	3.739E-04	4.027E-04	4.411E-04	4.909E-04
5.50E-01---1.11E 00	1.046E-03	1.049E-03	1.066E-03	1.098E-03	1.145E-03	1.211E-03	1.299E-03	1.414E-03	1.561E-03
1.11E-01---5.50E-01	3.558E-03	3.568E-03	3.609E-03	3.685E-03	3.795E-03	3.942E-03	4.129E-03	4.357E-03	4.629E-03
3.35E-02---1.11E-01	3.967E-02	3.974E-02	4.003E-02	4.055E-02	4.131E-02	4.230E-02	4.351E-02	4.493E-02	4.654E-02
5.83E-04---3.35E-02	4.013E-02	4.018E-02	4.042E-02	4.084E-02	4.144E-02	4.222E-02	4.316E-02	4.425E-02	4.547E-02
1.01E-04---5.83E-04	2.713E 00	2.716E 00	2.731E 00	2.758E 00	2.797E 00	2.846E 00	2.906E 00	2.975E 00	3.052E 00
2.90E-05---1.01E-04	1.263E 01	1.264E 01	1.271E 01	1.283E 01	1.300E 01	1.322E 01	1.349E 01	1.379E 01	1.413E 01
1.07E-05---2.90E-05	3.895E 01	3.900F 01	3.923E 01	3.957E 01	4.009E 01	4.076E 01	4.157E 01	4.250E 01	4.353E 01
3.06E-06---1.07E-05	1.113E 02	1.114E 02	1.120E 02	1.130E 02	1.144E 02	1.163E 02	1.186E 02	1.212E 02	1.241E 02
1.12E-06---3.06E-06	3.127E 02	3.130F 02	3.146E 02	3.174E 02	3.214E 02	3.266E 02	3.328E 02	3.399E 02	3.478E 02
4.14E-07---1.12E-06	7.151E 02	7.155E 02	7.194E 02	7.257E 02	7.347E 02	7.463E 02	7.601E 02	7.761E 02	7.938E 02
0.0 ---4.14E-07	1.091E 03	1.092F 03	1.098E 03	1.107E 03	1.119E 03	1.136F 03	1.155E 03	1.174E 03	1.201E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.6950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	3.481E-06	5.221E-06	8.295E-06	1.373E-05	2.324E-05	3.980E-05	6.893E-05	1.337E-04	1.332E-04
2.46E 00---3.01E 00	4.898E-05	7.506E-05	1.188E-04	1.943E-04	3.275E-04	5.756E-04	1.082E-03	2.776E-03	2.075E-03
2.35E 00---2.46E 00	1.701E-04	2.404E-04	3.605E-04	5.793E-04	1.000E-03	1.851E-03	3.737E-03	1.063E-02	7.048E-03
1.83E 00---2.35E 00	3.227E-04	3.989E-04	5.040E-04	6.478E-04	8.438E-04	1.112E-03	1.480E-03	2.000E-03	5.496E-03
1.11E 00---1.83E 00	5.548E-04	6.358E-04	7.375E-04	8.629E-04	1.012E-03	1.182E-03	1.354E-03	1.492E-03	7.802E-03
5.50E-01---1.11E 00	1.745E-03	1.975E-03	2.236E-03	2.592E-03	2.980E-03	3.400E-03	3.807E-03	4.109E-03	2.388E-02
1.11E-01---5.50E-01	4.544E-03	5.301E-03	5.693E-03	6.107E-03	6.521E-03	6.903E-03	7.212E-03	7.403E-03	6.288E-02
3.35E-02---1.11E-01	4.831E-02	5.015E-02	5.212E-02	5.402E-02	5.577E-02	5.728E-02	5.842E-02	5.908E-02	6.041E-01
5.83E-04---3.35E-02	4.678E-02	4.816E-02	4.934E-02	5.087E-02	5.207E-02	5.308E-02	5.384E-02	5.427E-02	5.842E-01
1.01E-04---5.83E-04	3.135E 00	3.221E 00	3.307E 00	3.389E 00	3.463E 00	3.526E 00	3.572E 00	3.599E 00	3.914E 01
2.90E-05---1.01E-04	1.450E 01	1.488F 01	1.526E 01	1.563F 01	1.594E 01	1.621E 01	1.641E 01	1.653E 01	1.810E 02
1.07E-05---2.90E-05	4.645E 01	4.580E 01	4.694E 01	4.804E 01	4.902E 01	4.985E 01	5.046E 01	5.081E 01	5.574E 02
3.06E-06---1.07E-05	1.272E 02	1.304E 02	1.335E 02	1.366E 02	1.393E 02	1.416E 02	1.433E 02	1.443E 02	1.588E 03
1.12E-06---3.06E-06	3.563E 02	3.650F 02	3.738E 02	3.820F 02	3.895E 02	3.957E 02	4.003E 02	4.029E 02	4.449E 03
4.14E-07---1.12E-06	8.128E 02	8.323E 02	8.517E 02	8.702F 02	8.868E 02	9.006E 02	9.109E 02	9.167E 02	1.015E 04
0.0 ---4.14E-07	1.227E 03	1.254E 03	1.281E 03	1.306E 03	1.329E 03	1.348E 03	1.361E 03	1.369E 03	1.533E 04

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.57E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.57E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	1.068E-07	1.089E-07	1.174E-07	1.326E-07	1.539E-07	1.830E-07	2.235E-07	2.834E-07	3.777E-07
1.93E 00---2.46E 00	1.893E-06	1.907E-06	1.968E-06	2.092E-06	2.314E-06	2.728E-06	3.489E-06	4.832E-06	7.094E-06
1.32E 00---1.93E 00	5.532E-06	5.732E-06	6.544E-06	7.978E-06	9.960E-06	1.267E-05	1.636E-05	2.133E-05	2.881E-05
1.11E 00---1.32E 00	3.412E-05	3.434E-05	3.529E-05	3.708E-05	3.978E-05	4.362E-05	4.888E-05	5.613E-05	6.615E-05
5.50E 01---1.11E 00	8.154E-05	8.180E-05	8.294E-05	8.520E-05	8.880E-05	9.408E-05	1.014E-04	1.111E-04	1.237E-04
1.11E 01---5.50E 01	2.774E-04	2.784E-04	2.830E-04	2.915E-04	3.044E-04	3.224E-04	3.463E-04	3.776E-04	4.174E-04
3.35E 02---1.11E 01	1.001E-03	1.004E-03	1.015E-03	1.037E-03	1.069E-03	1.111E-03	1.165E-03	1.231E-03	1.309E-03
5.83E 04---3.35E 02	1.164E-02	1.166E-02	1.174E-02	1.190E-02	1.230E-02	1.293E-02	1.279E-02	1.322E-02	1.370E-02
1.01E 04---5.83E 04	1.190E-02	1.191E-02	1.199E-02	1.211E-02	1.230E-02	1.253E-02	1.282E-02	1.315E-02	1.352E-02
2.90E 05---1.01E 04	8.115E-01	8.125E-01	8.171E-01	8.254E-01	8.372E-01	8.524E-01	8.708E-01	8.923E-01	9.158E-01
1.07E 05---2.90E 05	3.799E 00	3.804E 00	3.825E 00	3.862E 00	3.915E 00	3.983E 00	4.065E 00	4.160E 00	4.266E 00
3.06E 06---1.07E 05	1.177E 01	1.178E 01	1.185E 01	1.196E 01	1.212E 01	1.233E 01	1.258E 01	1.286E 01	1.320E 01
1.12E 06---3.06E 06	3.380E 01	3.384E 01	3.402E 01	3.434E 01	3.480E 01	3.539E 01	3.609E 01	3.691E 01	3.782E 01
4.14E 07---1.12E 06	9.538E 01	9.549E 01	9.599E 01	9.688E 01	9.814E 01	9.976E 01	1.017E 02	1.040E 02	1.065E 02
0.0 ---4.14E 07	2.190E 02	2.192E 02	2.204E 02	2.224E 02	2.252E 02	2.289E 02	2.333E 02	2.383E 02	2.440E 02
	3.356E 02	3.360E 02	3.375E 02	3.405E 02	3.446E 02	3.497E 02	3.558E 02	3.627E 02	3.704E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.57E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.57E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	5.343E-07	8.043E-07	1.278E-06	2.106E-06	3.537E-06	5.979E-06	1.010E-05	1.791E-05	1.970E-05
1.93E 00---2.46E 00	1.081E-05	1.693E-05	2.719E-05	4.485E-05	7.613E-05	1.339E-04	2.498E-04	5.950E-04	4.667E-04
1.32E 00---1.93E 00	3.948E-05	5.638E-05	8.590E-05	1.416E-04	2.516E-04	4.795E-04	9.974E-04	2.758E-03	1.785E-03
1.11E 00---1.32E 00	8.009E-05	9.941E-05	1.260E-04	1.820E-04	2.105E-04	2.753E-04	3.606E-04	4.694E-04	1.355E-03
5.50E 01---1.11E 00	1.399E-04	1.603E-04	1.859E-04	2.173E-04	2.543E-04	2.956E-04	3.366E-04	3.679E-04	1.960E-03
1.11E 01---5.50E 01	4.678E-04	5.304E-04	6.071E-04	6.988E-04	8.042E-04	9.179E-04	1.026E-03	1.105E-03	6.408E-03
3.35E 02---1.11E 01	1.400E-03	1.503E-03	1.616E-03	1.736E-03	1.855E-03	1.965E-03	2.054E-03	2.109E-03	1.781E-02
5.83E 04---3.35E 02	1.424E-02	1.481E-02	1.539E-02	1.597E-02	1.650E-02	1.695E-02	1.730E-02	1.750E-02	1.781E-01
1.01E 04---5.83E 04	1.393E-02	1.435E-02	1.477E-02	1.517E-02	1.554E-02	1.585E-02	1.607E-02	1.622E-02	1.739E-01
2.90E 05---1.01E 04	9.414E-01	9.679E-01	9.946E-01	1.020E 00	1.043E 00	1.062E 00	1.077E 00	1.085E 00	1.175E 01
1.07E 05---2.90E 05	4.380E 00	4.497E 00	4.615E 00	4.727E 00	4.829E 00	4.913E 00	4.976E 00	5.012E 00	5.468E 01
3.06E 06---1.07E 05	1.355E 01	1.391E 01	1.427E 01	1.461E 01	1.492E 01	1.518E 01	1.537E 01	1.548E 01	1.691E 02
1.12E 06---3.06E 06	3.879E 01	3.980E 01	4.081E 01	4.177E 01	4.263E 01	4.335E 01	4.388E 01	4.419E 01	4.843E 02
4.14E 07---1.12E 06	1.092E 02	1.119E 02	1.147E 02	1.173E 02	1.197E 02	1.217E 02	1.231E 02	1.240E 02	1.363E 03
0.0 ---4.14E 07	2.500E 02	2.562E 02	2.624E 02	2.683E 02	2.736E 02	2.780E 02	2.813E 02	2.831E 02	3.121E 03
	3.788E 02	3.874E 02	3.961E 02	4.043E 02	4.116E 02	4.176E 02	4.219E 02	4.244E 02	4.733E 03

4 PI R\*2 FLUENCE AT 75.0 METERS

0.35 TO 4.065 MEV NEUTRON SOURCE

(CAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9694	MU=-0.9446	MU=-0.8656	MU=-0.7150	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	7.564E-07	7.563E-07	7.595E-07	7.556E-07	7.746E-07	7.861E-07	8.001E-07	8.160E-07	8.335E-07
5.00E 00--6.50E 00	1.559E-06	1.561E-06	1.567E-06	1.580E-06	1.598E-06	1.621E-06	1.650E-06	1.682E-06	1.718E-06
3.00E 00--5.00E 00	1.733E-05	1.735E-05	1.742E-05	1.755E-05	1.775E-05	1.800E-05	1.830E-05	1.865E-05	1.903E-05
2.00E 00--3.00E 00	4.976E-06	4.982E-06	5.005E-06	5.049E-06	5.112E-06	5.195E-06	5.294E-06	5.408E-06	5.532E-06
1.00E 00--2.00E 00	1.004E-05	1.006E-05	1.014E-05	1.027E-05	1.047E-05	1.074E-05	1.107E-05	1.149E-05	1.202E-05
5.00E 00--1.00E 01	5.223E-05	5.253E-05	5.373E-05	5.599E-05	5.924E-05	6.365E-05	6.951E-05	7.743E-05	8.800E-05
2.00E 00--5.00E 00	5.192E-05	5.231E-05	5.378E-05	5.645E-05	6.007E-05	6.467E-05	7.061E-05	7.861E-05	8.968E-05
1.00E 00--2.00E 00	5.893E-06	5.984E-06	6.303E-06	6.815E-06	7.387E-06	7.967E-06	8.620E-06	9.492E-06	1.075E-05
1.33E 00--1.66E 00	9.076E-06	9.014E-06	8.823E-06	8.613E-06	8.609E-06	8.935E-06	9.719E-06	1.082E-05	1.223E-05
1.00E 00--1.33E 00	1.185E-05	1.173E-05	1.133E-05	1.084E-05	1.066E-05	1.103E-05	1.195E-05	1.327E-05	1.500E-05
5.00E 00--1.00E 01	1.343E-05	1.341E-05	1.340E-05	1.350E-05	1.390E-05	1.469E-05	1.585E-05	1.740E-05	1.944E-05
6.00E 00--8.00E 00	1.582E-05	1.582E-05	1.663E-05	1.796E-05	1.946E-05	2.094E-05	2.250E-05	2.450E-05	2.748E-05
4.00E 00--6.00E 00	5.511E-05	5.533E-05	5.612E-05	5.756E-05	5.955E-05	6.221E-05	6.592E-05	7.118E-05	7.846E-05
3.00E 00--4.00E 00	8.264E-05	8.271E-05	8.322E-05	8.497E-05	8.844E-05	9.531E-05	1.041E-04	1.144E-04	1.249E-04
2.00E 00--3.00E 00	2.215E-04	2.215E-04	2.235E-04	2.261E-04	2.289E-04	2.316E-04	2.340E-04	2.365E-04	2.401E-04
1.00E 00--2.00E 00	4.720E-04	4.724E-04	4.743E-04	4.771E-04	4.816E-04	4.868E-04	4.952E-04	5.044E-04	5.153E-04
5.00E 00--1.00E 01	1.049E-03	1.050E-03	1.052E-03	1.056E-03	1.062E-03	1.070E-03	1.079E-03	1.091E-03	1.103E-03
2.00E 00--5.00E 00	2.848E-04	2.848E-04	2.851E-04	2.857E-04	2.864E-04	2.875E-04	2.887E-04	2.901E-04	2.916E-04
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00--8.00E 00	8.520E-07	8.711E-07	8.896E-07	9.065E-07	9.216E-07	9.350E-07	9.436E-07	9.431E-07	1.063E-05
5.00E 00--6.50E 00	1.756E-06	1.794E-06	1.832E-06	1.866E-06	1.897E-06	1.926E-06	1.942E-06	1.941E-06	2.190E-05
3.00E 00--5.00E 00	1.943E-05	1.985E-05	2.025E-05	2.061E-05	2.094E-05	2.123E-05	2.141E-05	2.140E-05	2.425E-04
2.00E 00--3.00E 00	5.665E-06	5.801E-06	5.933E-06	6.054E-06	6.162E-06	6.258E-06	6.319E-06	6.314E-06	7.064E-05
1.00E 00--2.00E 00	1.293E-05	1.422E-05	1.458E-05	1.535E-05	1.740E-05	2.255E-05	3.005E-05	4.005E-05	1.771E-04
5.00E 00--1.00E 01	1.065E-04	1.454E-04	1.743E-04	1.774E-04	2.291E-04	3.865E-04	6.257E-04	9.458E-04	1.900E-03
2.00E 00--5.00E 00	1.032E-04	1.475E-04	1.767E-04	1.805E-04	2.337E-04	3.934E-04	6.344E-04	9.553E-04	1.929E-03
1.00E 00--2.00E 00	1.304E-05	1.461E-05	1.694E-05	2.345E-05	3.251E-05	4.409E-05	6.101E-05	8.964E-05	2.170E-04
5.00E 00--1.00E 01	1.613E-05	1.613E-05	1.883E-05	2.666E-05	3.644E-05	4.777E-05	6.189E-05	8.751E-05	2.401E-04
3.00E 00--4.00E 00	1.715E-05	2.065E-05	2.466E-05	2.990E-05	4.175E-05	5.762E-05	6.607E-05	6.074E-05	2.825E-04
2.00E 00--3.00E 00	2.247E-05	2.721E-05	3.241E-05	3.931E-05	5.221E-05	6.733E-05	7.278E-05	8.453E-05	3.539E-04
1.00E 00--2.00E 00	3.211E-05	3.862E-05	4.610E-05	5.407E-05	6.720E-05	8.123E-05	8.491E-05	9.417E-05	4.730E-04
5.00E 00--1.00E 01	8.765E-05	9.882E-05	1.093E-04	1.195E-04	1.361E-04	1.545E-04	1.609E-04	1.710E-04	1.155E-03
3.00E 00--4.00E 00	1.352E-04	1.454E-04	1.538E-04	1.624E-04	1.797E-04	2.003E-04	2.060E-04	2.259E-04	1.671E-03
2.00E 00--3.00E 00	2.459E-04	2.553E-04	2.645E-04	2.742E-04	2.965E-04	3.271E-04	3.416E-04	3.694E-04	3.212E-03
1.00E 00--2.00E 00	5.231E-04	5.428E-04	5.591E-04	5.763E-04	5.951E-04	6.151E-04	6.324E-04	6.412E-04	6.683E-03
5.00E 00--1.00E 01	1.117E-03	1.132E-03	1.148E-03	1.162E-03	1.177E-03	1.190E-03	1.200E-03	1.204E-03	1.402E-02
2.00E 00--5.00E 00	2.933E-04	2.951E-04	2.968E-04	2.985E-04	3.000E-04	3.014E-04	3.023E-04	3.027E-04	3.681E-03



ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
GROUP (MEV)	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
8.00E 00---1.00E 01	2.573E-06	2.578E-06	2.598E-06	2.637E-06	2.694E-06	2.769E-06	2.862E-06	2.971E-06	3.095E-06
6.50E 00---8.00E 00	5.314E-06	5.324E-06	5.365E-06	5.445E-06	5.562E-06	5.716E-06	5.904E-06	6.127E-06	6.379E-06
5.00E 00---6.50E 00	5.927E-05	5.938E-05	5.982E-05	6.049E-05	6.139E-05	6.358E-05	6.560E-05	6.797E-05	7.067E-05
4.00E 00---5.00E 00	1.683E-05	1.687E-05	1.701E-05	1.729E-05	1.770E-05	1.823E-05	1.889E-05	1.967E-05	2.055E-05
3.00E 00---4.00E 00	3.066E-05	3.074E-05	3.081E-05	3.157E-05	3.235E-05	3.335E-05	3.459E-05	3.608E-05	3.785E-05
2.00E 00---3.00E 00	5.753E-05	5.802E-05	5.821E-05	6.303E-05	6.717E-05	7.235E-05	7.898E-05	8.796E-05	1.005E-04
1.66E 00---2.00E 00	5.673E-05	5.745E-05	6.008E-05	6.444E-05	6.951E-05	7.504E-05	8.162E-05	9.054E-05	1.034E-04
1.33E 00---1.66E 00	2.145E-05	1.383E-05	1.481E-05	1.631E-05	1.781E-05	1.912E-05	2.046E-05	2.230E-05	2.505E-05
1.00E 00---1.33E 00	2.893E-05	2.107E-05	2.533E-05	1.997E-05	2.002E-05	2.108E-05	2.317E-05	2.600E-05	2.925E-05
8.00E 01---1.00E 02	3.379E-05	3.369E-05	3.347E-05	2.563E-05	2.513E-05	2.645E-05	2.926E-05	3.291E-05	3.688E-05
6.00E 01---8.00E 01	4.047E-05	4.111E-05	4.344E-05	3.353E-05	3.456E-05	3.673E-05	3.993E-05	4.392E-05	4.893E-05
4.00E 01---6.00E 01	1.555E-04	1.561E-04	1.585E-04	1.625E-04	1.679E-04	1.751E-04	1.856E-04	2.010E-04	2.226E-04
3.00E 01---4.00E 01	2.219E-04	2.221E-04	2.234E-04	2.286E-04	2.407E-04	2.611E-04	2.887E-04	3.200E-04	3.508E-04
2.00E 01---3.00E 01	5.957E-04	5.971E-04	6.021E-04	6.103E-04	6.182E-04	6.252E-04	6.309E-04	6.388E-04	6.452E-04
1.00E 01---2.00E 01	1.467E-03	1.469E-03	1.475E-03	1.485E-03	1.502E-03	1.526E-03	1.554E-03	1.589E-03	1.630E-03
5.00E 02---1.00E 01	3.567E-03	3.570E-03	3.580E-03	3.601E-03	3.630E-03	3.668E-03	3.715E-03	3.770E-03	3.833E-03
2.00E 02---5.00E 02	9.953E-04	9.956E-04	9.971E-04	9.998E-04	1.004E-03	1.009E-03	1.015E-03	1.022E-03	1.030E-03
GROUP (MEV)	MU= 0.2816	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	MU= 1.0000
8.00E 00---1.00E 01	3.376E-06	3.376E-06	3.525E-06	3.671E-06	3.803E-06	3.917E-06	4.000E-06	4.043E-06	4.037E-05
6.50E 00---8.00E 00	6.951E-06	6.951E-06	7.253E-06	7.549E-06	7.817E-06	8.049E-06	8.216E-06	8.304E-06	8.316E-05
5.00E 00---6.50E 00	7.675E-05	7.675E-05	7.995E-05	8.309E-05	8.593E-05	8.837E-05	9.014E-05	9.107E-05	9.198E-04
4.00E 00---5.00E 00	2.256E-05	2.256E-05	2.363E-05	2.460E-05	2.563E-05	2.645E-05	2.704E-05	2.736E-05	2.689E-04
3.00E 00---4.00E 00	4.397E-05	4.397E-05	4.565E-05	4.950E-05	5.122E-05	5.242E-05	5.361E-05	5.410E-04	5.341E-04
2.00E 00---3.00E 00	1.593E-04	1.593E-04	1.695E-04	2.453E-04	3.741E-04	5.053E-04	9.327E-04	2.007E-03	2.505E-03
1.00E 00---2.00E 00	9.877E-05	9.877E-05	1.157E-04	2.513E-04	3.848E-04	5.239E-04	9.648E-04	2.034E-03	2.579E-03
8.00E 01---2.00E 00									

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
8.00E 00---1.00E 01	4.041E-06	4.052E-06	4.091E-06	4.169E-06	4.284E-06	4.437E-06	4.627E-06	4.855E-06	5.120E-06
6.50E 00---8.00E 00	8.355E-06	8.374E-06	8.455E-06	8.614E-06	8.849E-06	9.160E-06	9.548E-06	1.001E-05	1.055E-05
5.00E 00---6.50E 00	9.333E-06	9.355E-06	9.443E-06	9.614E-06	9.867E-06	1.020E-05	1.062E-05	1.111E-05	1.169E-05
4.00E 00---5.00E 00	2.634E-05	2.641E-05	2.669E-05	2.725E-05	2.806E-05	2.912E-05	3.050E-05	3.212E-05	3.401E-05
3.00E 00---4.00E 00	4.721E-05	4.734E-05	4.787E-05	4.887E-05	5.032E-05	5.220E-05	5.454E-05	5.736E-05	6.072E-05
2.50E 00---3.00E 00	5.663E-05	5.719E-05	5.829E-05	6.289E-05	6.735E-05	7.261E-05	7.917E-05	8.813E-05	1.008E-04
2.00E 00---2.50E 00	5.568E-05	5.600E-05	5.919E-05	6.515E-05	7.079E-05	7.638E-05	8.270E-05	9.148E-05	1.047E-04
1.66E 00---2.00E 00	1.888E-05	1.930E-05	2.078E-05	2.300E-05	2.514E-05	2.695E-05	2.879E-05	3.142E-05	3.546E-05
1.23E 00---1.66E 00	2.925E-05	2.904E-05	2.836E-05	2.773E-05	2.806E-05	2.866E-05	3.312E-05	3.738E-05	4.218E-05
1.00E 00---1.23E 00	4.019E-05	3.962E-05	3.781E-05	3.580E-05	3.551E-05	3.784E-05	4.242E-05	4.804E-05	5.379E-05
8.00E-01---1.00E 00	4.812E-05	4.798E-05	4.766E-05	4.788E-05	4.959E-05	5.314E-05	5.817E-05	6.419E-05	7.144E-05
6.00E-01---8.00E-01	5.906E-05	6.001E-05	6.346E-05	6.887E-05	7.448E-05	7.952E-05	8.453E-05	9.143E-05	1.030E-04
4.00E-01---6.00E-01	2.353E-04	2.362E-04	2.399E-04	2.463E-04	2.546E-04	2.656E-04	2.815E-04	3.048E-04	3.374E-04
3.00E-01---4.00E-01	3.308E-04	3.310E-04	3.329E-04	3.406E-04	3.587E-04	3.892E-04	4.300E-04	4.756E-04	5.198E-04
2.00E-01---3.00E-01	8.698E-04	8.718E-04	8.792E-04	8.908E-04	9.027E-04	9.128E-04	9.210E-04	9.294E-04	9.417E-04
1.00E-01---2.00E-01	2.244E-03	2.247E-03	2.257E-03	2.267E-03	2.303E-03	2.339E-03	2.385E-03	2.441E-03	2.508E-03
5.00E-02---1.00E-01	5.655E-03	5.660E-03	5.679E-03	5.715E-03	5.767E-03	5.834E-03	5.917E-03	6.016E-03	6.129E-03
2.00E-02---5.00E-02	1.596E-03	1.596E-03	1.599E-03	1.606E-03	1.611E-03	1.619E-03	1.630E-03	1.643E-03	1.657E-03
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	5.418E-06	5.745E-06	6.088E-06	6.433E-06	6.760E-06	7.044E-06	7.259E-06	7.379E-06	6.805E-05
5.00E 00---6.50E 00	1.116E-05	1.182E-05	1.252E-05	1.322E-05	1.388E-05	1.445E-05	1.495E-05	1.513E-05	1.401E-04
4.00E 00---5.00E 00	1.233E-04	1.304E-04	1.377E-04	1.451E-04	1.521E-04	1.582E-04	1.627E-04	1.653E-04	1.548E-03
3.00E 00---4.00E 00	3.615E-05	3.849E-05	4.096E-05	4.345E-05	4.581E-05	4.787E-05	4.942E-05	5.029E-05	4.543E-04
2.50E 00---3.00E 00	6.255E-05	7.051E-05	7.239E-05	8.111E-05	8.512E-05	9.597E-05	1.135E-04	1.604E-04	8.458E-04
2.00E 00---2.50E 00	1.305E-04	1.338E-04	1.906E-04	2.308E-04	3.486E-04	5.546E-04	1.011E-03	2.347E-03	2.625E-03
1.66E 00---2.00E 00	1.357E-04	1.399E-04	1.932E-04	2.398E-04	3.628E-04	5.806E-04	1.058E-03	2.386E-03	2.727E-03
1.33E 00---1.66E 00	3.717E-05	5.166E-05	5.515E-05	7.694E-05	1.032E-04	1.584E-04	2.797E-04	4.773E-04	7.859E-04
1.00E 00---1.33E 00	4.298E-05	5.914E-05	6.381E-05	9.238E-05	1.244E-04	1.919E-04	3.082E-04	4.092E-04	8.466E-04
8.00E-01---1.00E 00	5.921E-05	7.122E-05	8.713E-05	1.188E-04	1.628E-04	2.269E-04	3.387E-04	4.071E-04	1.898E-03
6.00E-01---8.00E-01	8.048E-05	9.899E-05	1.232E-04	1.631E-04	2.171E-04	3.12E-04	3.871E-04	4.478E-04	1.390E-03
4.00E-01---6.00E-01	1.206E-04	1.502E-04	1.848E-04	2.300E-04	2.776E-04	3.312E-04	3.871E-04	4.127E-04	1.960E-03
3.00E-01---4.00E-01	3.773E-04	4.268E-04	4.740E-04	5.245E-04	5.733E-04	6.327E-04	7.088E-04	8.127E-04	4.960E-03
2.00E-01---3.00E-01	5.566E-04	5.933E-04	6.240E-04	6.661E-04	7.159E-04	7.831E-04	8.605E-04	9.480E-04	6.818E-03
1.00E-01---2.00E-01	9.582E-04	9.938E-04	1.033E-03	1.087E-03	1.150E-03	1.236E-03	1.337E-03	1.463E-03	1.257E-02
5.00E-02---1.00E-01	2.585E-03	2.675E-03	2.775E-03	2.887E-03	3.008E-03	3.144E-03	3.259E-03	3.359E-03	3.284E-02
2.00E-02---5.00E-02	6.255E-03	6.394E-03	6.539E-03	6.690E-03	6.838E-03	6.976E-03	7.090E-03	7.165E-03	7.863E-02
	1.672E-03	1.689E-03	1.706E-03	1.722E-03	1.738E-03	1.751E-03	1.761E-03	1.768E-03	2.092E-02

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI 1.22 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0550
8.00E 00---1.00E 01	6.859E-06	6.879E-06	6.970E-06	7.150E-06	7.418E-06	7.778E-06	8.239E-06	8.811E-06	9.501E-06
6.50E 00---8.00E 00	1.418E-05	1.423E-05	1.442E-05	1.479E-05	1.533E-05	1.607E-05	1.701E-05	1.818E-05	1.958E-05
5.00E 00---6.50E 00	1.590E-04	1.595E-04	1.615E-04	1.655E-04	1.714E-04	1.793E-04	1.894E-04	2.018E-04	2.168E-04
4.00E 00---5.00E 00	4.436E-05	4.452E-05	4.518E-05	4.647E-05	4.837E-05	5.093E-05	5.421E-05	5.827E-05	6.321E-05
3.00E 00---4.00E 00	7.885E-05	7.914E-05	8.027E-05	8.247E-05	8.566E-05	8.990E-05	9.530E-05	1.020E-04	1.102E-04
2.50E 00---3.00E 00	5.226E-05	5.222E-05	5.271E-05	5.373E-05	5.539E-05	5.833E-05	6.279E-05	6.848E-05	7.509E-05
2.00E 00---2.50E 00	5.107E-05	5.222E-05	5.631E-05	6.250E-05	6.857E-05	7.593E-05	8.414E-05	9.382E-05	1.046E-04
1.66E 00---2.00E 00	2.841E-05	2.905E-05	3.136E-05	3.475E-05	3.805E-05	4.095E-05	4.414E-05	4.884E-05	5.401E-05
1.33E 00---1.66E 00	4.227E-05	4.207E-05	4.156E-05	4.139E-05	4.279E-05	4.441E-05	4.725E-05	5.071E-05	5.484E-05
1.00E 00---1.33E 00	5.802E-05	5.802E-05	5.885E-05	5.986E-05	6.183E-05	6.482E-05	6.840E-05	7.264E-05	7.764E-05
8.00E 00---1.00E 00	7.312E-05	7.298E-05	7.284E-05	7.394E-05	7.778E-05	8.282E-05	8.840E-05	9.460E-05	1.016E-04
6.00E 00---8.00E 00	9.424E-05	9.569E-05	1.011E-04	1.096E-04	1.189E-04	1.280E-04	1.377E-04	1.510E-04	1.717E-04
4.00E 00---6.00E 00	3.973E-04	3.991E-04	4.042E-04	4.185E-04	4.347E-04	4.560E-04	4.856E-04	5.274E-04	5.834E-04
3.00E 00---4.00E 00	5.535E-04	5.542E-04	5.591E-04	5.740E-04	6.054E-04	6.534E-04	7.204E-04	7.917E-04	8.595E-04
2.00E 00---3.00E 00	1.422E-03	1.425E-03	1.436E-03	1.453E-03	1.471E-03	1.497E-03	1.501E-03	1.516E-03	1.538E-03
1.00E 00---2.00E 00	3.829E-03	3.833E-03	3.852E-03	3.888E-03	3.939E-03	4.006E-03	4.090E-03	4.192E-03	4.312E-03
5.00E 00---1.00E 00	1.006E-02	1.007E-02	1.011E-02	1.018E-02	1.029E-02	1.043E-02	1.060E-02	1.080E-02	1.103E-02
2.00E 00---5.00E 00	2.878E-03	2.880E-03	2.885E-03	2.895E-03	2.908E-03	2.926E-03	2.948E-03	2.973E-03	3.001E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	1.031E-05	1.125E-05	1.229E-05	1.339E-05	1.450E-05	1.551E-05	1.632E-05	1.681E-05	1.322E-04
6.50E 00---8.00E 00	2.123E-05	2.313E-05	2.523E-05	2.747E-05	2.970E-05	3.175E-05	3.338E-05	3.436E-05	2.719E-04
5.00E 00---6.50E 00	2.343E-04	2.544E-04	2.745E-04	2.999E-04	3.253E-04	3.466E-04	3.618E-04	3.717E-04	2.994E-03
4.00E 00---5.00E 00	6.906E-05	7.580E-05	8.334E-05	9.138E-05	9.946E-05	1.069E-04	1.128E-04	1.164E-04	8.879E-04
3.00E 00---4.00E 00	1.203E-04	1.307E-04	1.411E-04	1.573E-04	1.730E-04	1.898E-04	2.150E-04	2.749E-04	1.569E-03
2.50E 00---3.00E 00	1.114E-04	1.409E-04	1.744E-04	2.279E-04	3.162E-04	5.073E-04	9.864E-04	2.541E-03	2.530E-03
2.00E 00---2.50E 00	1.187E-04	1.504E-04	1.821E-04	2.404E-04	3.50E-04	5.449E-04	1.057E-03	2.597E-03	2.676E-03
1.66E 00---2.00E 00	6.672E-05	7.692E-05	9.238E-05	1.149E-04	1.517E-04	2.042E-04	4.170E-04	7.327E-04	1.209E-03
1.33E 00---1.66E 00	7.882E-05	8.907E-05	1.059E-04	1.405E-04	1.965E-04	2.866E-04	4.730E-04	6.732E-04	1.386E-03
1.00E 00---1.33E 00	1.002E-04	1.161E-04	1.445E-04	1.900E-04	2.587E-04	3.518E-04	4.730E-04	6.256E-04	1.721E-03
8.00E 00---1.00E 00	1.365E-04	1.627E-04	2.047E-04	2.639E-04	3.408E-04	4.288E-04	5.277E-04	6.183E-04	2.236E-03
6.00E 00---8.00E 00	2.039E-04	2.483E-04	3.064E-04	3.733E-04	4.666E-04	5.812E-04	7.171E-04	8.781E-04	3.074E-03
4.00E 00---6.00E 00	6.527E-04	7.866E-04	8.067E-04	8.802E-04	9.524E-04	1.031E-03	1.134E-03	1.266E-03	8.360E-03
3.00E 00---4.00E 00	1.188E-04	9.686E-04	1.029E-03	1.078E-03	1.152E-03	1.240E-03	1.339E-03	1.461E-03	1.116E-02
2.00E 00---3.00E 00	1.572E-03	1.617E-03	1.680E-03	1.754E-03	1.843E-03	1.945E-03	2.064E-03	2.198E-03	2.034E-02
1.00E 00---2.00E 00	4.450E-03	4.605E-03	4.777E-03	4.963E-03	5.159E-03	5.357E-03	5.545E-03	5.689E-03	5.633E-02
5.00E 00---1.00E 00	1.128E-02	1.156E-02	1.185E-02	1.215E-02	1.244E-02	1.271E-02	1.293E-02	1.307E-02	1.477E-01
2.00E 00---5.00E 00	3.032E-03	3.065E-03	3.098E-03	3.130E-03	3.160E-03	3.186E-03	3.203E-03	3.217E-03	3.804E-02

4 PI R\*\*2 FLUENCE AT 400.0 METERS

2.35 TO 4.065 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9094	ANGLE 3 MU=-0.8446	ANGLE 4 MU=-0.7550	ANGLE 5 MU=-0.6179	ANGLE 6 MU=-0.4580	ANGLE 7 MU=-0.2816	ANGLE 8 MU=-0.0950	ANGLE 9 MU=-0.0950
8.00E 00--1.00E 01	8.819E-06	8.855E-06	8.997E-06	9.278E-06	9.697E-06	1.027E-05	1.102E-05	1.197E-05	1.317E-05
6.50E 00--8.00E 00	1.826E-05	1.833E-05	1.862E-05	1.920E-05	2.006E-05	2.123E-05	2.276E-05	2.471E-05	2.713E-05
5.00E 00--6.50E 00	2.051E-04	2.059E-04	2.090E-04	2.153E-04	2.245E-04	2.372E-04	2.536E-04	2.744E-04	3.002E-04
4.00E 00--5.00E 00	5.670E-05	5.655E-05	5.799E-05	6.002E-05	6.302E-05	6.709E-05	7.241E-05	7.922E-05	8.777E-05
3.00E 00--4.00E 00	1.013E-04	1.013E-04	1.030E-04	1.064E-04	1.113E-04	1.180E-04	1.267E-04	1.378E-04	1.516E-04
2.50E 00--3.00E 00	4.575E-05	4.643E-05	4.865E-05	5.306E-05	5.770E-05	6.278E-05	6.903E-05	7.786E-05	8.822E-05
2.00E 00--2.50E 00	4.604E-05	4.722E-05	5.147E-05	5.778E-05	6.381E-05	7.079E-05	7.879E-05	8.859E-05	9.982E-05
1.56E 00--2.00E 00	3.530E-05	3.530E-05	3.801E-05	4.213E-05	4.627E-05	5.030E-05	5.515E-05	6.095E-05	6.772E-05
1.33E 00--1.66E 00	4.955E-05	4.955E-05	4.944E-05	5.013E-05	5.281E-05	5.655E-05	6.155E-05	6.729E-05	7.395E-05
1.00E 00--1.33E 00	6.923E-05	6.859E-05	6.676E-05	6.571E-05	6.848E-05	7.633E-05	8.545E-05	9.511E-05	1.061E-04
8.00E 01--1.00E 01	8.866E-05	8.866E-05	8.911E-05	9.163E-05	9.797E-05	1.087E-04	1.232E-04	1.405E-04	1.610E-04
6.00E 01--8.00E 01	1.188E-04	1.206E-04	1.274E-04	1.386E-04	1.515E-04	1.655E-04	1.818E-04	2.037E-04	2.357E-04
4.00E 01--6.00E 01	5.294E-04	5.321E-04	5.429E-04	5.621E-04	5.880E-04	6.224E-04	6.687E-04	7.310E-04	8.113E-04
3.00E 01--4.00E 01	7.417E-04	7.437E-04	7.537E-04	7.788E-04	8.247E-04	8.932E-04	9.791E-04	1.072E-03	1.160E-03
2.00E 01--3.00E 01	1.915E-03	1.918E-03	1.930E-03	1.950E-03	1.972E-03	1.992E-03	2.012E-03	2.036E-03	2.069E-03
1.00E 01--2.00E 01	5.229E-03	5.235E-03	5.263E-03	5.316E-03	5.391E-03	5.491E-03	5.614E-03	5.762E-03	5.934E-03
5.00E 02--1.00E 01	1.407E-02	1.408E-02	1.414E-02	1.425E-02	1.442E-02	1.463E-02	1.488E-02	1.519E-02	1.554E-02
2.00E 02--5.00E 02	4.057E-03	4.059E-03	4.067E-03	4.082E-03	4.103E-03	4.130E 03	4.162E-03	4.200E-03	4.243E-03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
8.00E 00--1.00E 01	1.463E-05	1.639E-05	1.844E-05	2.075E-05	2.320E-05	2.588E-05	2.759E-05	2.885E-05	1.934E-04
6.50E 00--8.00E 00	3.010E-05	3.266E-05	3.781E-05	4.247E-05	4.741E-05	5.220E-05	5.622E-05	5.875E-05	3.973E-04
5.00E 00--6.50E 00	3.316E-04	3.691E-04	4.126E-04	4.611E-04	5.122E-04	5.615E-04	6.028E-04	6.287E-04	4.356E-03
4.00E 00--5.00E 00	9.833E-05	1.111E-04	1.261E-04	1.431E-04	1.612E-04	1.789E-04	1.937E-04	2.031E-04	1.310E-03
3.00E 00--4.00E 00	1.896E-04	1.892E-04	2.131E-04	2.403E-04	2.699E-04	3.013E-04	3.374E-04	4.053E-04	2.255E-03
2.50E 00--3.00E 00	1.093E-04	1.235E-04	1.673E-04	2.155E-04	2.964E-04	4.574E-04	8.738E-04	2.367E-03	2.349E-03
2.00E 00--2.50E 00	1.189E-04	1.459E-04	1.813E-04	2.313E-04	3.193E-04	5.018E-04	9.589E-04	2.428E-03	2.528E-03
1.66E 00--2.00E 00	8.769E-05	1.056E-04	1.271E-04	1.573E-04	2.102E-04	3.115E-04	5.093E-04	8.857E-04	1.557E-03
1.33E 00--1.66E 00	1.047E-04	1.239E-04	1.510E-04	1.936E-04	2.613E-04	3.698E-04	5.436E-04	8.210E-04	1.808E-03
1.00E 00--1.33E 00	1.365E-04	1.615E-04	2.006E-04	2.609E-04	3.464E-04	4.585E-04	5.985E-04	7.715E-04	2.273E-03
8.00E 01--1.00E 01	1.877E-04	2.265E-04	2.830E-04	3.505E-04	4.560E-04	5.615E-04	6.672E-04	7.687E-04	2.975E-03
6.00E 01--8.00E 01	2.815E-04	3.434E-04	4.195E-04	5.057E-04	5.956E-04	6.835E-04	7.666E-04	8.477E-04	4.105E-03
4.00E 01--6.00E 01	9.069E-04	1.011E-03	1.114E-03	1.211E-03	1.302E-03	1.398E-03	1.506E-03	1.639E-03	1.148E-02
3.00E 01--4.00E 01	1.239E-03	1.306E-03	1.374E-03	1.451E-03	1.542E-03	1.645E-03	1.746E-03	1.839E-03	1.501E-02
2.00E 01--3.00E 01	2.116E-03	2.179E-03	2.258E-03	2.350E-03	2.451E 03	2.562E-03	2.678E-03	2.794E-03	2.720E-02
1.00E 01--2.00E 01	6.130E-03	6.347E-03	6.582E-03	6.831E-03	7.083E-03	7.329E-03	7.547E-03	7.707E-03	7.734E-02
5.00E 02--1.00E 01	1.592E-02	1.624E-02	1.677E-02	1.721E-02	1.763E-02	1.801E-02	1.831E-02	1.851E-02	1.998E-01
2.00E 02--5.00E 02	4.289E-03	4.337E-03	4.389E-03	4.432E-03	4.475E-03	4.512E-03	4.540E-03	4.556E-03	5.377E-02

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	9.629E-06	9.673E-06	9.851E-06	1.020E-05	1.073E-05	1.145E-05	1.242E-05	1.368E-05	1.530E-05
6.50E 00---8.00E 00	1.994E-05	2.003E-05	2.040E-05	2.112E-05	2.220E-05	2.369E-05	2.566E-05	2.823E-05	3.152E-05
5.00E 00---6.50E 00	2.244E-04	2.256E-04	2.294E-04	2.372E-04	2.488E-04	2.649E-04	2.860E-04	3.135E-04	3.485E-04
4.00E 00---5.00E 00	6.150E-05	6.183E-05	6.317E-05	6.576E-05	6.955E-05	7.472E-05	8.156E-05	9.056E-05	1.022E-04
3.00E 00---4.00E 00	1.097E-04	1.103E-04	1.125E-04	1.167E-04	1.229E-04	1.313E-04	1.425E-04	1.570E-04	1.758E-04
2.50E 00---3.00E 00	3.967E-05	4.032E-05	4.276E-05	4.670E-05	5.119E-05	5.621E-05	6.254E-05	7.169E-05	8.522E-05
2.00E 00---2.50E 00	4.073E-05	4.183E-05	4.582E-05	5.174E-05	5.745E-05	6.263E-05	6.866E-05	7.813E-05	9.346E-05
1.66E 00---2.00E 00	3.657E-05	3.733E-05	4.011E-05	4.440E-05	4.898E-05	5.388E-05	6.021E-05	6.973E-05	8.389E-05
1.33E 00---1.66E 00	5.132E-05	5.131E-05	5.157E-05	5.296E-05	5.662E-05	6.340E-05	7.359E-05	8.707E-05	1.037E-04
1.00E 00---1.33E 00	7.157E-05	7.108E-05	6.983E-05	6.989E-05	7.424E-05	8.419E-05	9.921E-05	1.176E-04	1.386E-04
8.00E-01---1.00E 00	9.335E-05	9.351E-05	9.486E-05	9.860E-05	1.071E-04	1.209E-04	1.396E-04	1.627E-04	1.910E-04
6.00E-01---8.00E-01	1.287E-04	1.307E-04	1.384E-04	1.515E-04	1.675E-04	1.862E-04	2.092E-04	2.404E-04	2.842E-04
4.00E-01---6.00E-01	6.087E-04	6.122E-04	6.263E-04	6.520E-04	6.876E-04	7.353E-04	7.986E-04	8.812E-04	9.842E-04
3.00E-01---4.00E-01	8.638E-04	8.674E-04	8.849E-04	9.206E-04	9.815E-04	1.067E-03	1.171E-03	1.281E-03	1.386E-03
2.00E-01---3.00E-01	2.289E-03	2.292E-03	2.305E-03	2.325E-03	2.347E-03	2.370E-03	2.395E-03	2.425E-03	2.468E-03
1.00E-01---2.00E-01	6.273E-03	6.282E-03	6.318E-03	6.386E-03	6.484E-03	6.612E-03	6.771E-03	6.960E-03	7.180E-03
5.00E-02---1.00E-01	1.715E-02	1.717E-02	1.725E-02	1.740E-02	1.761E-02	1.789E-02	1.823E-02	1.863E-02	1.908E-02
2.00E-02---5.00E-02	4.979E-03	4.982E-03	4.992E-03	5.011E-03	5.039E-03	5.074E-03	5.117E-03	5.166E-03	5.221E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	1.736E-05	1.933E-05	2.309E-05	2.684E-05	3.105E-05	3.539E-05	3.926E-05	4.182E-05	2.391E-04
6.50E 00---8.00E 00	3.569E-05	4.090E-05	4.727E-05	5.481E-05	6.327E-05	7.196E-05	7.968E-05	8.478E-05	4.902E-04
5.00E 00---6.50E 00	3.925E-04	4.472E-04	5.135E-04	5.913E-04	6.779E-04	7.664E-04	8.444E-04	8.959E-04	5.346E-03
4.00E 00---5.00E 00	1.171E-04	1.360E-04	1.593E-04	1.872E-04	2.187E-04	2.512E-04	2.802E-04	2.992E-04	1.634E-03
3.00E 00---4.00E 00	1.996E-04	2.294E-04	2.658E-04	3.090E-04	3.577E-04	4.096E-04	4.632E-04	5.391E-04	2.765E-03
2.50E 00---3.00E 00	1.044E-04	1.302E-04	1.644E-04	2.121E-04	2.868E-04	4.262E-04	7.709E-04	2.066E-03	2.176E-03
2.00E 00---2.50E 00	1.157E-04	1.447E-04	1.815E-04	2.313E-04	3.132E-04	4.744E-04	8.612E-04	2.128E-03	2.376E-03
1.66E 00---2.00E 00	1.031E-04	1.271E-04	1.566E-04	1.967E-04	2.592E-04	3.691E-04	5.737E-04	9.584E-04	1.813E-03
1.33E 00---1.66E 00	1.242E-04	1.507E-04	1.875E-04	2.411E-04	3.206E-04	4.396E-04	6.211E-04	9.020E-04	2.123E-03
1.00E 00---1.33E 00	1.639E-04	1.986E-04	2.475E-04	3.235E-04	4.227E-04	5.461E-04	6.923E-04	8.635E-04	2.692E-03
8.00E-01---1.00E 00	2.280E-04	2.793E-04	3.505E-04	4.432E-04	5.527E-04	6.682E-04	7.771E-04	8.728E-04	3.538E-03
6.00E-01---8.00E-01	3.443E-04	4.217E-04	5.138E-04	6.149E-04	7.170E-04	8.124E-04	8.944E-04	9.697E-04	4.891E-03
4.00E-01---6.00E-01	1.104E-03	1.232E-03	1.358E-03	1.476E-03	1.584E-03	1.690E-03	1.803E-03	1.926E-03	1.384E-02
3.00E-01---4.00E-01	1.481E-03	1.666E-03	1.652E-03	1.745E-03	1.850E-03	1.959E-03	2.060E-03	2.141E-03	1.793E-02
2.00E-01---3.00E-01	2.528E-03	2.606E-03	2.700E-03	2.806E-03	2.919E-03	3.034E-03	3.145E-03	3.241E-03	3.240E-02
1.00E-01---2.00E-01	7.427E-03	7.699E-03	7.989E-03	8.289E-03	8.586E-03	8.844E-03	9.100E-03	9.261E-03	9.350E-02
5.00E-02---1.00E-01	1.958E-02	2.032E-02	2.067E-02	2.123E-02	2.176E-02	2.223E-02	2.260E-02	2.282E-02	2.455E-01
2.00E-02---5.00E-02	5.280E-03	5.342E-03	5.403E-03	5.463E-03	5.517E-03	5.562E-03	5.596E-03	5.616E-03	6.618E-02

## 4 PI R\*\*2 FLUENCE AT 600.0 METERS

## 2.35 TO 4.065 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
9.409E-06	9.456E-06	9.649E-06	1.003E-05	1.060E-05	1.139E-05	1.246E-05	1.388E-05	1.576E-05	1.845E-05
6.50E 00---8.00E 00	1.948E-05	1.958E-05	2.077E-05	2.376E-05	2.819E-05	3.356E-05	3.980E-05	4.700E-05	5.515E-05
5.00E 00---6.50E 00	2.197E-04	2.207E-04	2.251E-04	2.462E-04	2.819E-04	3.356E-04	3.980E-04	4.700E-04	5.515E-04
4.00E 00---5.00E 00	5.964E-05	6.003E-05	6.115E-05	6.447E-05	7.426E-05	8.636E-05	9.992E-05	1.152E-04	1.325E-04
3.00E 00---4.00E 00	1.069E-04	1.075E-04	1.100E-04	1.146E-04	1.213E-04	1.305E-04	1.428E-04	1.592E-04	1.809E-04
2.00E 00---3.00E 00	3.340E-05	3.400E-05	3.624E-05	3.987E-05	4.405E-05	4.885E-05	5.431E-05	6.041E-05	6.712E-05
1.66E 00---2.00E 00	3.502E-05	3.509E-05	3.949E-05	4.471E-05	4.988E-05	5.289E-05	5.954E-05	6.666E-05	7.428E-05
1.33E 00---1.66E 00	4.855E-05	4.859E-05	4.902E-05	5.072E-05	5.484E-05	6.227E-05	7.348E-05	8.646E-05	1.018E-04
1.00E 00---1.33E 00	6.754E-05	6.719E-05	6.845E-05	7.075E-05	7.265E-05	8.370E-05	1.003E-04	1.212E-04	1.464E-04
8.00E-01---1.00E 00	8.898E-05	8.929E-05	9.105E-05	9.597E-05	1.057E-04	1.213E-04	1.428E-04	1.703E-04	2.054E-04
6.00E-01---8.00E-01	1.253E-04	1.274E-04	1.356E-04	1.496E-04	1.675E-04	1.896E-04	2.181E-04	2.573E-04	3.117E-04
4.00E-01---6.00E-01	6.318E-04	6.359E-04	6.523E-04	6.828E-04	7.262E-04	7.852E-04	8.627E-04	9.627E-04	1.084E-03
3.00E-01---4.00E-01	9.108E-04	9.141E-04	9.393E-04	9.873E-04	1.062E-03	1.162E-03	1.280E-03	1.403E-03	1.521E-03
2.00E-01---3.00E-01	2.515E-03	2.518E-03	2.530E-03	2.548E-03	2.568E-03	2.591E-03	2.617E-03	2.652E-03	2.702E-03
1.00E-01---2.00E-01	6.885E-03	6.895E-03	6.938E-03	7.019E-03	7.133E-03	7.284E-03	7.471E-03	7.693E-03	7.950E-03
5.00E-02---1.00E-01	1.908E-02	1.910E-02	1.920E-02	1.938E-02	1.963E-02	1.996E-02	2.036E-02	2.084E-02	2.138E-02
2.00E-02---5.00E-02	5.573E-03	5.576E-03	5.588E-03	5.611E-03	5.643E-03	5.685E-03	5.736E-03	5.794E-03	5.859E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
9.409E-06	1.821E-05	2.140E-05	2.549E-05	3.041E-05	3.669E-05	4.336E-05	4.964E-05	5.403E-05	2.637E-04
6.50E 00---8.00E 00	3.743E-05	4.388E-05	5.211E-05	6.237E-05	7.454E-05	8.782E-05	1.003E-04	1.090E-04	5.394E-04
5.00E 00---6.50E 00	4.109E-04	4.782E-04	5.634E-04	6.684E-04	7.917E-04	9.251E-04	1.049E-03	1.136E-03	5.845E-04
4.00E 00---5.00E 00	1.234E-04	1.470E-04	1.775E-04	2.160E-04	2.620E-04	3.126E-04	3.601E-04	3.929E-04	1.822E-03
3.00E 00---4.00E 00	2.094E-04	2.463E-04	2.934E-04	3.518E-04	4.210E-04	4.972E-04	5.740E-04	6.611E-04	3.036E-03
2.50E 00---3.00E 00	9.792E-05	1.250E-04	1.812E-04	2.111E-04	2.851E-04	4.113E-04	6.963E-04	1.761E-03	2.021E-03
2.00E 00---2.50E 00	1.102E-04	1.409E-04	1.803E-04	2.333E-04	3.147E-04	4.614E-04	7.858E-04	1.821E-03	2.233E-03
1.66E 00---2.00E 00	1.097E-04	1.351E-04	1.765E-04	2.267E-04	3.000E-04	4.173E-04	6.182E-04	9.800E-04	1.944E-03
1.33E 00---1.66E 00	1.333E-04	1.668E-04	2.131E-04	2.779E-04	3.685E-04	4.952E-04	6.753E-04	9.384E-04	2.314E-03
1.00E 00---1.33E 00	1.784E-04	2.225E-04	2.852E-04	3.715E-04	4.818E-04	6.124E-04	7.580E-04	9.163E-04	2.949E-03
8.00E-01---1.00E 00	2.518E-04	3.150E-04	3.994E-04	5.048E-04	6.245E-04	7.566E-04	8.535E-04	9.596E-04	3.866E-03
6.00E-01---8.00E-01	3.844E-04	4.753E-04	5.906E-04	6.930E-04	8.034E-04	9.028E-04	9.851E-04	1.049E-03	5.376E-03
4.00E-01---6.00E-01	1.223E-03	1.369E-03	1.513E-03	1.647E-03	1.770E-03	1.886E-03	2.001E-03	2.111E-03	1.523E-02
3.00E-01---4.00E-01	1.628E-03	1.727E-03	1.826E-03	1.933E-03	2.048E-03	2.163E-03	2.262E-03	2.333E-03	1.947E-02
2.00E-01---3.00E-01	2.772E-03	2.861E-03	2.967E-03	3.085E-03	3.206E-03	3.325E-03	3.438E-03	3.515E-03	3.551E-02
1.00E-01---2.00E-01	8.238E-03	8.553E-03	8.986E-03	9.224E-03	9.557E-03	9.860E-03	1.011E-02	1.027E-02	1.036E-01
5.00E-02---1.00E-01	2.197E-02	2.260E-02	2.326E-02	2.390E-02	2.451E-02	2.505E-02	2.545E-02	2.571E-02	2.753E-01
2.00E-02---5.00E-02	5.928E-03	6.001E-03	6.073E-03	6.142E-03	6.204E-03	6.257E-03	6.296E-03	6.319E-03	7.428E-02

## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI \*\*\*2 FLUENCE AT 900.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9804	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	5.782E-06	5.820E-06	5.972E-06	6.263E-06	6.591E-06	7.290E-06	8.121E-06	9.279E-06	1.090E-05
6.50E 00--8.00E 00	1.194E-05	1.202E-05	1.236E-05	1.299E-05	1.388E-05	1.511E-05	1.679E-05	1.913E-05	2.243E-05
5.00E 00--6.50E 00	1.354E-04	1.363E-04	1.398E-04	1.468E-04	1.560E-04	1.692E-04	1.873E-04	2.124E-04	2.472E-04
4.00E 00--5.00E 00	3.521E-05	3.566E-05	3.738E-05	4.021E-05	4.363E-05	4.775E-05	5.327E-05	6.134E-05	7.329E-05
3.00E 00--4.00E 00	6.475E-05	6.534E-05	6.763E-05	7.163E-05	7.688E-05	8.372E-05	9.305E-05	1.063E-04	1.254E-04
2.50E 00--3.00E 00	1.615E-05	1.656E-05	1.809E-05	2.049E-05	2.315E-05	2.626E-05	3.059E-05	3.751E-05	4.854E-05
2.00E 00--2.50E 00	1.849E-05	1.894E-05	2.063E-05	2.325E-05	2.618E-05	2.967E-05	3.464E-05	4.275E-05	5.579E-05
1.66E 00--2.00E 00	2.237E-05	2.297E-05	2.503E-05	2.850E-05	3.222E-05	3.688E-05	4.297E-05	5.118E-05	6.418E-05
1.33E 00--1.66E 00	2.216E-05	2.276E-05	2.503E-05	3.011E-05	3.509E-05	4.093E-05	4.803E-05	5.751E-05	7.177E-05
1.00E 00--1.33E 00	2.994E-05	3.078E-05	3.394E-05	4.075E-05	4.841E-05	5.722E-05	6.891E-05	8.332E-05	1.015E-04
8.00E 00--1.00E 00	4.029E-05	4.078E-05	4.478E-05	5.998E-05	7.875E-05	1.024E-04	1.312E-04	1.618E-04	2.000E-04
6.00E 00--8.00E 00	5.186E-05	5.239E-05	5.747E-05	7.740E-05	1.036E-04	1.352E-04	1.742E-04	2.137E-04	2.616E-04
4.00E 00--6.00E 00	7.557E-05	7.646E-05	8.489E-05	1.139E-04	1.501E-04	1.933E-04	2.451E-04	3.068E-04	3.800E-04
3.00E 00--4.00E 00	9.809E-04	1.009E-03	1.105E-03	1.505E-03	2.000E-03	2.611E-03	3.352E-03	4.261E-03	5.361E-03
2.00E 00--3.00E 00	7.257E-04	7.341E-04	7.696E-04	1.037E-03	1.408E-03	1.817E-03	2.323E-03	2.941E-03	3.691E-03
1.00E 00--2.00E 00	2.387E-03	2.388E-03	2.593E-03	3.400E-03	4.408E-03	5.617E-03	7.081E-03	8.844E-03	1.108E-02
5.00E 00--1.00E 01	6.437E-03	6.496E-03	6.96E-03	9.584E-03	1.261E-02	1.648E-02	2.134E-02	2.741E-02	3.501E-02
2.00E 00--5.00E 00	1.498E-03	1.511E-03	1.622E-03	2.182E-03	2.911E-03	3.845E-03	5.045E-03	6.645E-03	8.745E-03
8.00E 00--1.00E 01	1.320E-05	1.365E-05	1.477E-05	1.994E-05	2.674E-05	3.599E-05	4.820E-05	6.345E-05	8.221E-05
6.50E 00--8.00E 00	2.707E-05	2.746E-05	2.930E-05	3.833E-05	5.037E-05	6.699E-05	8.844E-05	1.154E-04	1.504E-04
5.00E 00--6.50E 00	2.956E-04	3.034E-04	3.288E-04	4.330E-04	5.693E-04	7.474E-04	9.844E-04	1.294E-03	1.694E-03
4.00E 00--5.00E 00	9.061E-05	9.253E-05	1.005E-04	1.325E-04	1.738E-04	2.284E-04	3.014E-04	3.944E-04	5.144E-04
3.00E 00--4.00E 00	1.523E-04	1.553E-04	1.681E-04	2.205E-04	2.873E-04	3.811E-04	5.011E-04	6.541E-04	8.541E-04
2.50E 00--3.00E 00	6.543E-05	6.693E-05	7.281E-05	9.593E-05	1.261E-04	1.661E-04	2.181E-04	2.861E-04	3.741E-04
2.00E 00--2.50E 00	7.581E-05	7.781E-05	8.481E-05	1.101E-04	1.441E-04	1.881E-04	2.461E-04	3.241E-04	4.241E-04
1.66E 00--2.00E 00	8.694E-05	8.944E-05	9.744E-05	1.264E-04	1.644E-04	2.144E-04	2.804E-04	3.644E-04	4.744E-04
1.33E 00--1.66E 00	1.091E-04	1.116E-04	1.226E-04	1.586E-04	2.046E-04	2.646E-04	3.446E-04	4.446E-04	5.746E-04
1.00E 00--1.33E 00	1.540E-04	1.576E-04	1.736E-04	2.246E-04	2.946E-04	3.846E-04	4.946E-04	6.346E-04	8.146E-04
8.00E 00--1.00E 01	2.310E-04	2.360E-04	2.560E-04	3.360E-04	4.460E-04	5.860E-04	7.660E-04	9.960E-04	1.296E-03
6.00E 00--8.00E 00	3.718E-04	3.809E-04	4.099E-04	5.369E-04	6.969E-04	9.069E-04	1.186E-03	1.546E-03	2.006E-03
4.00E 00--6.00E 00	1.153E-03	1.183E-03	1.273E-03	1.633E-03	2.103E-03	2.743E-03	3.583E-03	4.683E-03	6.083E-03
3.00E 00--4.00E 00	1.538E-03	1.578E-03	1.708E-03	2.198E-03	2.898E-03	3.848E-03	5.048E-03	6.548E-03	8.548E-03
2.00E 00--3.00E 00	2.579E-03	2.673E-03	2.863E-03	3.693E-03	4.843E-03	6.343E-03	8.243E-03	1.064E-02	1.384E-02
1.00E 00--2.00E 00	7.929E-03	8.277E-03	8.967E-03	1.167E-02	1.537E-02	2.007E-02	2.607E-02	3.367E-02	4.367E-02
5.00E 00--1.00E 01	2.177E-02	2.250E-02	2.424E-02	3.194E-02	4.194E-02	5.494E-02	7.194E-02	9.394E-02	1.239E-01
2.00E 00--5.00E 00	5.891E-03	5.973E-03	6.455E-03	8.613E-03	1.133E-02	1.483E-02	1.943E-02	2.543E-02	3.343E-02

ENERGY  
GROUP (MEV)ANGLE 10  
MU= 0.0950ANGLE 11  
MU= 0.2816ANGLE 12  
MU= 0.4580ANGLE 13  
MU= 0.6179ANGLE 14  
MU= 0.7550ANGLE 15  
MU= 0.8656ANGLE 16  
MU= 0.9446ANGLE 17  
MU= 0.9894SCALAR  
FLUX

## 4 PI R\*\*2 FLUENCE AT 1200.0 METERS

## 2.35 TO 4.065 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	2.430F-06	2.452F-06	2.543E-06	2.696E-06	2.907E-06	3.189E-06	3.581E-06	4.154E-06	5.007E-06
5.00E 00---6.50E 00	4.954E-06	5.012E-06	5.235E-06	5.607E-06	6.062E-06	6.626E-06	7.396E-06	8.543E-06	1.028E-05
3.50E 00---5.00E 00	5.688E-05	5.742E-05	5.955E-05	6.320E-05	6.794E-05	7.408E-05	8.254E-05	9.488E-05	1.131E-04
2.00E 00---3.50E 00	1.317E-05	1.364E-05	1.529E-05	1.759E-05	1.989E-05	2.122E-05	2.327E-05	2.701E-05	3.362E-05
1.50E 00---2.00E 00	2.605F-05	2.655E-05	2.838E-05	3.111E-05	3.389E-05	3.684E-05	4.084E-05	4.731E-05	5.765E-05
1.00E 00---1.50E 00	5.580E-06	5.875E-06	6.922E-06	8.375E-06	9.670F-06	1.092E-05	1.279E-05	1.628E-05	2.239E-05
5.00E 00---1.00E 01	7.933E-06	8.043E-06	8.486E-06	9.261E-06	1.038E-05	1.211E-05	1.489E-05	1.935E-05	2.646E-05
4.00E 00---4.00E 00	1.114E-05	1.095E-05	1.043E-05	1.010E-05	1.101E-05	1.358E-05	1.780E-05	2.368E-05	3.208E-05
3.00E 00---3.00E 00	1.507E-05	1.460E-05	1.317E-05	1.205E-05	1.310E-05	1.688E-05	2.295E-05	3.081E-05	4.162E-05
2.00E 00---2.00E 00	1.832E-05	1.798E-05	1.705E-05	1.691E-05	1.924E-05	2.460E-05	3.281E-05	4.425E-05	6.158E-05
1.00E 00---1.00E 00	2.012E-05	2.063E-05	2.271E-05	2.642E-05	3.153E-05	3.870E-05	4.972E-05	6.822E-05	9.944E-05
5.00E 00---5.00E 00	2.902E-05	3.055E-05	3.627E-05	4.487E-05	5.454E-05	6.724E-05	8.800E-05	1.240E-04	1.805E-04
4.00E 00---4.00E 00	2.637E-04	2.653E-04	2.753E-04	2.955E-04	3.298E-04	3.829E-04	4.574E-04	5.532E-04	6.654E-04
3.00E 00---3.00E 00	4.096E-04	4.172E-04	4.496E-04	5.098E-04	5.934E-04	6.947E-04	8.008E-04	9.004E-04	9.852E-04
2.00E 00---2.00E 00	1.661E-03	1.661E-03	1.661E-03	1.660E-03	1.656E-03	1.650E-03	1.649E-03	1.659E-03	1.686E-03
1.00E 00---1.00E 00	4.372E-03	4.380E-03	4.416E-03	4.482E-03	4.576E-03	4.700E-03	4.854E-03	5.039E-03	5.253E-03
5.00E 00---5.00E 00	1.292E-02	1.254E-02	1.303E-02	1.318E-02	1.340E-02	1.369E-02	1.404E-02	1.446E-02	1.494E-02
2.00E 00---2.00E 00	3.884E-03	3.886E-03	3.897E-03	3.917E-03	3.945E-03	3.982E-03	4.026E-03	4.078E-03	4.135E-03
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	SCALAR FLUX
6.50E 00---8.00E 00	6.294E-06	8.231F-06	1.130E-05	1.633E-05	2.462E-05	3.770E-05	5.570E-05	7.353E-05	1.433E-04
5.00E 00---6.50E 00	1.288E-05	1.680E-05	2.289E-05	3.277E-05	4.899E-05	7.438E-05	1.088E-04	1.424E-04	2.866E-04
3.50E 00---5.00E 00	1.399E-04	1.797E-04	2.403E-04	3.362E-04	4.891E-04	7.221E-04	1.031E-03	1.326E-03	2.913E-03
2.00E 00---3.50E 00	4.393E-05	5.920E-05	8.288E-05	1.227E-04	1.904E-04	2.977E-04	4.385E-04	5.681E-04	1.069E-03
1.50E 00---2.00E 00	7.321E-05	9.632E-05	1.322E-04	1.907E-04	2.856E-04	4.273E-04	6.058E-04	7.712E-04	1.627E-03
1.00E 00---1.50E 00	3.227E-05	4.814E-05	7.486E-05	1.210E-04	1.973E-04	3.130E-04	4.725E-04	7.532E-04	1.027E-03
5.00E 00---5.00E 00	3.795E-05	5.713E-05	8.974E-05	1.440E-04	2.289E-04	3.511E-04	5.143E-04	7.704E-04	1.163E-03
4.00E 00---4.00E 00	4.575E-05	6.970E-05	1.108E-04	1.760E-04	2.703E-04	3.935E-04	5.389E-04	6.969E-04	1.312E-03
3.00E 00---3.00E 00	5.955E-05	9.151E-05	1.450E-04	2.247E-04	3.244E-04	4.515E-04	5.778E-04	6.927E-04	1.563E-03
2.00E 00---2.00E 00	9.063E-05	1.388E-04	2.115E-04	3.081E-04	4.195E-04	5.308E-04	6.251E-04	6.933E-04	2.008E-03
1.00E 00---1.00E 00	1.486E-04	2.162E-04	3.106E-04	4.149E-04	5.195E-04	6.099E-04	6.749E-04	7.105E-04	2.644E-03
5.00E 00---5.00E 00	2.583E-04	3.519E-04	4.515E-04	5.466E-04	6.292E-04	6.954E-04	7.433E-04	7.714E-04	3.639E-03
4.00E 00---4.00E 00	7.851E-04	9.028E-04	1.012E-03	1.110E-03	1.201E-03	1.288E-03	1.367E-03	1.423E-03	9.437E-03
3.00E 00---3.00E 00	1.056E-03	1.122E-03	1.193E-03	1.275E-03	1.364E-03	1.448E-03	1.513E-03	1.550E-03	1.253E-02
2.00E 00---2.00E 00	1.733E-03	1.801E-03	1.883E-03	1.975E-03	2.068E-03	2.155E-03	2.227E-03	2.273E-03	2.259E-02
1.00E 00---1.00E 00	5.495E-03	5.761E-03	6.043E-03	6.328E-03	6.602E-03	6.844E-03	7.033E-03	7.146E-03	6.910E-02
5.00E 00---5.00E 00	1.547E-02	1.604E-02	1.663E-02	1.721E-02	1.775E-02	1.822E-02	1.857E-02	1.878E-02	1.938E-01
2.00E 00---2.00E 00	4.197E-03	4.261E-03	4.325E-03	4.386E-03	4.441E-03	4.487E-03	4.521E-03	4.541E-03	5.255E-02



## 2.35 TO 4.065 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
8.00E 00--1.00E 01	8.023E-07	8.156E-07	8.652E-07	9.426E-07	1.028E-06	1.126E-06	1.259E-06	1.470E-06	1.813E-06
6.50E 00--6.50E 00	1.574E-06	1.615E-06	1.763E-06	1.974E-06	2.171E-06	2.353E-06	2.588E-06	2.998E-06	3.709E-06
5.00E 00--5.00E 00	1.874E-06	1.908E-06	2.030E-06	2.215E-06	2.408E-06	2.616E-06	2.895E-06	3.349E-06	4.086E-06
4.00E 00--4.00E 00	2.904E-06	3.227E-06	4.737E-06	6.879E-06	7.538E-06	7.780E-06	7.866E-06	8.998E-06	1.203E-05
3.00E 00--3.00E 00	7.566E-06	7.960E-06	9.362E-06	1.116E-05	1.243E-05	1.316E-05	1.408E-05	1.637E-05	2.090E-05
2.50E 00--2.50E 00	1.142E-06	1.367E-06	2.118E-06	3.020E-06	3.565E-06	3.810E-06	4.253E-06	5.620E-06	8.398E-06
2.00E 00--2.00E 00	3.167E-06	3.138E-06	3.054E-06	3.026E-06	3.271E-06	3.989E-06	5.312E-06	7.316E-06	1.024E-05
1.66E 00--1.66E 00	5.584E-06	5.245E-06	4.129E-06	2.995E-06	2.999E-06	4.423E-06	6.855E-06	9.601E-06	1.278E-05
1.33E 00--1.33E 00	7.638E-06	7.075E-06	5.222E-06	3.400E-06	3.474E-06	5.669E-06	9.108E-06	1.266E-05	1.681E-05
1.00E 00--1.00E 00	7.729E-06	7.345E-06	6.177E-06	5.336E-06	6.212E-06	8.917E-06	1.287E-05	1.790E-05	2.612E-05
8.00E 00--1.00E 00	5.258E-06	5.682E-06	7.277E-06	9.671E-06	1.215E-05	1.489E-05	1.920E-05	2.826E-05	4.659E-05
6.00E 00--1.00E 00	6.644E-06	7.829E-06	1.200E-05	1.743E-05	2.203E-05	2.715E-05	3.731E-05	5.801E-05	9.640E-05
4.00E 00--1.00E 00	1.235E-04	1.243E-04	1.284E-04	1.382E-04	1.574E-04	1.897E-04	2.374E-04	3.001E-04	3.731E-04
3.00E 00--1.00E 00	1.926E-04	1.978E-04	2.201E-04	2.617E-04	3.197E-04	3.890E-04	4.595E-04	5.217E-04	5.697E-04
2.00E 00--1.00E 00	9.709E-04	9.707E-04	9.694E-04	9.653E-04	9.574E-04	9.459E-04	9.370E-04	9.360E-04	9.464E-04
1.00E 00--1.00E 00	2.481E-03	2.487E-03	2.508E-03	2.548E-03	2.604E-03	2.679E-03	2.771E-03	2.882E-03	3.010E-03
5.00E 00--1.00E 00	7.487E-03	7.499E-03	7.549E-03	7.642E-03	7.775E-03	7.951E-03	8.167E-03	8.424E-03	8.719E-03
2.00E 00--1.00E 00	2.267E-03	2.269E-03	2.275E-03	2.287E-03	2.305E-03	2.327E-03	2.354E-03	2.386E-03	2.421E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.9446	MU= 0.9894	MU= 0.9894	MU= 0.9894
8.00E 00--1.00E 01	2.355E-06	3.214E-06	4.664E-06	7.327E-06	1.248E-05	2.224E-05	3.857E-05	5.808E-05	7.449E-05
6.50E 00--6.50E 00	4.836E-06	6.568E-06	9.401E-06	1.456E-05	2.454E-05	4.329E-05	7.396E-05	1.096E-04	1.444E-04
5.00E 00--5.00E 00	5.221E-05	6.948E-05	9.727E-05	1.461E-04	2.366E-04	4.000E-04	6.589E-04	9.523E-04	1.413E-03
4.00E 00--4.00E 00	1.705E-05	2.407E-05	3.496E-05	5.614E-05	1.003E-04	1.830E-04	3.120E-04	4.470E-04	5.771E-04
3.00E 00--3.00E 00	2.798E-05	3.832E-05	5.520E-05	8.703E-05	1.482E-04	2.549E-04	4.081E-04	5.636E-04	8.344E-04
2.50E 00--2.50E 00	1.293E-05	2.039E-05	3.451E-05	6.311E-05	1.175E-04	2.082E-04	3.347E-04	5.020E-04	5.981E-04
2.00E 00--2.00E 00	1.507E-05	2.441E-05	4.332E-05	7.947E-05	1.415E-04	2.350E-04	3.560E-04	5.010E-04	6.788E-04
1.66E 00--1.66E 00	1.846E-05	3.112E-05	5.716E-05	1.031E-04	1.731E-04	2.600E-04	3.719E-04	4.714E-04	7.802E-04
1.33E 00--1.33E 00	2.507E-05	4.376E-05	7.979E-05	1.372E-04	2.141E-04	3.026E-04	3.892E-04	4.581E-04	9.303E-04
1.00E 00--1.00E 00	4.260E-05	7.395E-05	1.248E-04	1.941E-04	2.730E-04	3.483E-04	4.073E-04	4.433E-04	1.193E-03
8.00E 00--1.00E 00	7.880E-05	1.275E-04	1.912E-04	2.631E-04	3.324E-04	3.887E-04	4.240E-04	4.406E-04	1.545E-03
6.00E 00--1.00E 00	1.502E-04	2.147E-04	2.812E-04	3.411E-04	3.898E-04	4.267E-04	4.530E-04	4.686E-04	2.143E-03
4.00E 00--1.00E 00	4.489E-04	5.199E-04	5.815E-04	6.342E-04	6.839E-04	7.320E-04	7.792E-04	8.138E-04	5.258E-03
3.00E 00--1.00E 00	6.054E-04	6.371E-04	6.743E-04	7.216E-04	7.750E-04	8.250E-04	8.619E-04	8.817E-04	7.092E-03
2.00E 00--1.00E 00	9.713E-04	1.010E-03	1.058E-03	1.111E-03	1.165E-03	1.217E-03	1.260E-03	1.287E-03	1.279E-02
1.00E 00--1.00E 00	3.136E-03	3.317E-03	3.487E-03	3.661E-03	3.828E-03	3.976E-03	4.092E-03	4.161E-03	3.972E-02
5.00E 00--1.00E 00	9.046E-03	9.398E-03	9.763E-03	1.013E-02	1.046E-02	1.076E-02	1.098E-02	1.111E-02	1.133E-01
2.00E 00--1.00E 00	2.459E-03	2.499E-03	2.538E-03	2.576E-03	2.610E-03	2.639E-03	2.660E-03	2.672E-03	3.079E-02

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.0894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
2.136E-07	2.220E-07	2.220E-07	2.517E-07	2.921E-07	3.251E-07	3.498E-07	3.801E-07	4.422E-07	5.623E-07
6.50E 00--8.00E 00	3.699E-07	3.987E-07	4.975E-07	6.233E-07	7.072E-07	7.612E-07	7.703E-07	8.798E-07	1.141E-06
5.00E 00--6.50E 00	4.998E-06	5.202E-06	5.924E-06	6.833E-06	7.616E-06	8.110E-06	8.709E-06	1.004E-05	1.246E-05
3.00E 00--4.00E 00	-3.122E-07	4.301E-08	1.011E-06	2.311E-06	2.630E-06	2.940E-06	2.125E-06	2.216E-06	3.662E-06
3.00E 00--3.00E 00	1.225E-06	1.526E-06	2.518E-06	3.675E-06	4.248E-06	4.171E-06	3.996E-06	4.618E-06	6.505E-06
2.50E 00--2.00E 00	-1.756E-07	2.337E-10	4.762E-07	1.092E-06	1.273E-06	1.167E-06	1.117E-06	1.579E-06	2.788E-06
2.00E 00--2.00E 00	1.325E-06	1.265E-06	1.061E-06	8.258E-07	7.824E-07	1.069E-06	1.703E-06	2.547E-06	3.522E-06
1.66E 00--2.00E 00	3.002E-06	2.693E-06	1.544E-06	4.856E-07	3.684E-07	1.098E-06	2.521E-06	3.717E-06	4.423E-06
1.33E 00--1.66E 00	4.154E-06	3.676E-06	1.845E-06	4.273E-07	3.882E-07	1.454E-06	3.533E-06	4.893E-06	5.783E-06
1.00E 00--1.33E 00	3.411E-06	3.089E-06	2.051E-06	1.185E-06	1.506E-06	2.865E-06	4.628E-06	6.401E-06	9.453E-06
8.00E 01--1.00E 01	3.182E-07	6.476E-07	1.763E-06	3.268E-06	4.437E-06	5.140E-06	6.259E-06	9.933E-06	1.935E-05
6.00E 01--8.00E 01	-6.302E-07	2.668E-07	3.044E-06	6.431E-06	8.353E-06	9.670E-06	1.372E-05	2.486E-05	4.672E-05
4.00E 01--6.00E 01	5.424E-05	5.442E-05	5.563E-05	5.959E-05	6.891E-05	8.623E-05	1.132E-04	1.492E-04	1.910E-04
3.00E 01--4.00E 01	8.256E-05	8.558E-05	9.863E-05	1.232E-04	1.579E-04	1.993E-04	2.402E-04	2.749E-04	2.980E-04
2.00E 01--3.00E 01	5.132E-04	5.130E-04	5.118E-04	5.082E-04	5.013E-04	4.919E-04	4.828E-04	4.773E-04	4.803E-04
1.00E 01--2.00E 01	1.272E-03	1.274E-03	1.286E-03	1.307E-03	1.337E-03	1.375E-03	1.425E-03	1.483E-03	1.550E-03
5.00E 02--1.00E 01	3.885E-03	3.891E-03	3.918E-03	3.967E-03	4.038E-03	4.131E-03	4.242E-03	4.383E-03	4.543E-03
2.00E 02--5.00E 02	1.181E-03	1.182E-03	1.185E-03	1.192E-03	1.201E-03	1.213E-03	1.227E-03	1.244E-03	1.263E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	3.587E-05
7.623E-07	7.623E-07	1.080E-06	1.631E-06	2.762E-06	5.343E-06	1.125E-05	2.325E-05	4.053E-05	6.892E-05
6.50E 00--8.00E 00	1.580E-06	2.227E-06	3.275E-06	5.411E-06	1.037E-05	2.163E-05	4.376E-05	7.434E-05	6.224E-04
5.00E 00--6.50E 00	1.688E-05	2.316E-05	3.537E-05	5.328E-05	9.646E-05	1.893E-04	3.643E-04	5.991E-04	2.877E-04
4.00E 00--5.00E 00	6.018E-06	8.706E-06	1.243E-05	2.112E-05	4.447E-05	9.757E-05	1.717E-04	3.038E-04	3.925E-04
3.00E 00--4.00E 00	9.445E-06	1.329E-05	1.946E-05	3.342E-05	6.615E-05	1.324E-04	2.395E-04	3.589E-04	3.181E-04
2.50E 00--3.00E 00	4.598E-06	7.407E-06	1.340E-05	2.815E-05	6.633E-05	1.203E-04	2.083E-04	3.121E-04	3.617E-04
2.00E 00--2.50E 00	5.044E-06	8.699E-06	1.795E-05	3.834E-05	7.654E-05	1.374E-04	2.177E-04	3.028E-04	4.183E-04
1.66E 00--2.00E 00	5.989E-06	1.155E-05	2.572E-05	5.328E-05	9.717E-05	1.566E-04	2.240E-04	2.833E-04	4.986E-04
1.33E 00--1.66E 00	8.590E-06	1.794E-05	3.894E-05	7.439E-05	1.226E-04	1.772E-04	2.287E-04	2.666E-04	4.378E-04
1.00E 00--1.33E 00	1.740E-05	3.509E-05	6.588E-05	1.087E-04	1.568E-04	2.004E-04	2.312E-04	2.472E-04	6.334E-04
8.00E 01--1.00E 01	3.775E-05	6.684E-05	1.053E-04	1.481E-04	1.877E-04	2.170E-04	2.325E-04	2.503E-04	1.135E-03
6.00E 01--8.00E 01	7.919E-05	1.179E-04	1.563E-04	1.888E-04	2.131E-04	2.303E-04	2.426E-04	2.503E-04	2.651E-03
4.00E 01--6.00E 01	2.332E-04	2.707E-04	3.007E-04	3.245E-04	3.463E-04	3.702E-04	3.953E-04	4.146E-04	4.457E-04
3.00E 01--4.00E 01	3.128E-04	3.250E-04	3.417E-04	3.659E-04	3.942E-04	4.201E-04	4.375E-04	4.457E-04	3.422E-03
2.00E 01--3.00E 01	4.917E-04	5.108E-04	5.350E-04	5.617E-04	5.888E-04	6.149E-04	6.375E-04	6.519E-04	6.537E-03
1.00E 01--2.00E 01	1.627E-03	1.711E-03	1.801E-03	1.892E-03	1.980E-03	2.058E-03	2.118E-03	2.155E-03	2.047E-02
5.00E 02--1.00E 01	4.715E-03	4.902E-03	5.097E-03	5.291E-03	5.472E-03	5.629E-03	5.748E-03	5.818E-03	5.908E-02
2.00E 02--5.00E 02	1.283E-03	1.304E-03	1.325E-03	1.345E-03	1.364E-03	1.379E-03	1.390E-03	1.397E-03	1.606E-02

4 PT R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

2.350 TO 4.065 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.193E-10	1.383E-10	1.645E-10	1.784E-10	1.833E-10
-9.89401E-01	1.193E-10	1.383E-10	1.645E-10	1.784E-10	1.833E-10
-9.44575E-01	1.191E-10	1.382E-10	1.644E-10	1.783E-10	1.832E-10
-8.55631E-01	1.189E-10	1.382E-10	1.644E-10	1.783E-10	1.832E-10
-7.55044E-01	1.191E-10	1.387E-10	1.655E-10	1.807E-10	1.864E-10
-6.17876E-01	1.201E-10	1.404E-10	1.702E-10	1.878E-10	1.954E-10
-4.58017E-01	1.226E-10	1.438E-10	1.757E-10	1.949E-10	2.038E-10
-2.81605E-01	1.275E-10	1.501E-10	1.846E-10	2.060E-10	2.162E-10
-9.50125E-02	1.360E-10	1.605E-10	1.985E-10	2.224E-10	2.342E-10
-9.50125E-02	1.70E-10	1.958E-10	2.397E-10	2.352E-10	2.476E-10
-2.81605E-01	2.043E-10	2.088E-10	2.550E-10	2.913E-10	3.070E-10
-4.58017E-01	2.093E-10	2.726E-10	2.908E-10	3.275E-10	3.435E-10
-6.17876E-01	2.644E-10	3.127E-10	3.790E-10	4.258E-10	4.426E-10
-7.55044E-01	4.501E-10	4.150E-10	5.386E-10	5.592E-10	5.685E-10
-8.55631E-01	1.065E-09	7.647E-10	7.808E-10	8.245E-10	8.245E-10
-9.44575E-01	2.578E-09	2.324E-09	1.709E-09	1.539E-09	1.412E-09
-9.89401E-01	1.089E-08	1.084E-08	9.530E-09	7.758E-09	6.211E-09
TOTAL	5.554E-09	5.513E-09	5.543E-09	5.458E-09	5.269E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.381E-10	1.102E-10	4.530E-11	1.518E-11	4.488E-12
-9.89401E-01	1.384E-10	1.105E-10	4.543E-11	1.523E-11	4.502E-12
-9.44575E-01	1.397E-10	1.117E-10	4.598E-11	1.543E-11	4.562E-12
-8.55631E-01	1.424E-10	1.140E-10	4.705E-11	1.580E-11	4.674E-12
-7.55044E-01	1.466E-10	1.175E-10	4.867E-11	1.636E-11	4.843E-12
-6.17876E-01	1.526E-10	1.226E-10	5.094E-11	1.715E-11	5.077E-12
-4.58017E-01	1.611E-10	1.297E-10	5.400E-11	1.819E-11	5.387E-12
-2.81605E-01	1.726E-10	1.392E-10	5.804E-11	1.955E-11	5.790E-12
-9.50125E-02	1.882E-10	1.518E-10	6.329E-11	2.130E-11	6.303E-12
-9.50125E-02	2.090E-10	1.685E-10	7.008E-11	2.353E-11	6.952E-12
-2.81605E-01	2.372E-10	1.907E-10	7.887E-11	2.638E-11	7.771E-12
-4.58017E-01	2.761E-10	2.209E-10	9.037E-11	3.003E-11	8.806E-12
-6.17876E-01	3.312E-10	2.628E-10	1.057E-10	3.475E-11	1.012E-11
-7.55044E-01	4.131E-10	3.233E-10	1.266E-10	4.098E-11	1.182E-11
-8.55631E-01	5.438E-10	4.169E-10	1.566E-10	4.953E-11	1.408E-11
-9.44575E-01	7.923E-10	5.859E-10	2.053E-10	6.247E-11	1.735E-11
-9.89401E-01	2.038E-09	1.317E-09	3.584E-10	9.570E-11	2.470E-11
TOTAL	3.447E-09	2.674E-09	1.043E-09	3.395E-10	9.852E-11

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CA\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

2.350 TO 4.065 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.707E-10	2.022E-10	2.504E-10	2.823E-10	3.002E-10
-9.89401E-01	1.706E-10	2.021E-10	2.503E-10	2.822E-10	3.001E-10
-9.44575E-01	1.703E-10	2.020E-10	2.500E-10	2.835E-10	3.011E-10
-8.65631E-01	1.700E-10	2.020E-10	2.500E-10	2.857E-10	3.052E-10
-7.55044E-01	1.702E-10	2.028E-10	2.544E-10	2.897E-10	3.106E-10
-6.17876E-01	1.714E-10	2.051E-10	2.590E-10	2.965E-10	3.191E-10
-4.58017E-01	1.751E-10	2.100E-10	2.670E-10	3.072E-10	3.319E-10
-2.81605E-01	1.818E-10	2.188E-10	2.759E-10	3.234E-10	3.504E-10
-9.50125E-02	1.933E-10	2.332E-10	2.997E-10	3.471E-10	3.768E-10
9.50125E-02	2.474E-10	2.822E-10	3.588E-10	3.646E-10	3.956E-10
2.81605E-01	2.859E-10	2.980E-10	3.759E-10	4.449E-10	4.814E-10
4.58017E-01	2.901E-10	3.834E-10	4.271E-10	4.925E-10	5.308E-10
6.17876E-01	3.593E-10	4.388E-10	5.456E-10	6.281E-10	6.684E-10
7.55044E-01	5.953E-10	5.68CE-10	7.54CE-10	8.042E-10	8.363E-10
8.65631E-01	1.369E-09	1.011E-09	1.073E-09	1.160E-09	1.178E-09
9.44575E-01	3.303E-09	2.988E-09	2.251E-09	2.075E-09	1.941E-09
9.89401E-01	1.370E-08	1.371E-08	1.215E-08	9.976E-09	8.066E-09
TOTAL	7.300E-09	7.392E-09	7.706E-09	7.842E-09	7.809E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	2.619E-10	2.19CE-10	1.004E-10	3.630E-11	1.131E-11
-9.89401E-01	2.624E-10	2.195E-10	1.006E-10	3.638E-11	1.134E-11
-9.44575E-01	2.647E-10	2.215E-10	1.017E-10	3.676E-11	1.146E-11
-8.65631E-01	2.692E-10	2.255E-10	1.036E-10	3.747E-11	1.168E-11
-7.55044E-01	2.761E-10	2.315E-10	1.055E-10	3.852E-11	1.201E-11
-6.17876E-01	2.861E-10	2.401E-10	1.105E-10	3.998E-11	1.245E-11
-4.58017E-01	2.597E-10	2.517E-10	1.159E-10	4.188E-11	1.304E-11
-2.81605E-01	3.181E-10	2.671E-10	1.228E-10	4.431E-11	1.378E-11
-9.50125E-02	3.423E-10	2.872E-10	1.316E-10	4.737E-11	1.470E-11
9.50125E-02	3.743E-10	3.134E-10	1.427E-10	5.118E-11	1.584E-11
2.81605E-01	4.167E-10	3.475E-10	1.569E-10	5.593E-11	1.725E-11
4.58017E-01	4.740E-10	3.927E-10	1.750E-10	6.185E-11	1.897E-11
6.17876E-01	5.534E-10	4.541E-10	1.984E-10	6.930E-11	2.11CE-11
7.55044E-01	6.686E-10	5.406E-10	2.294E-10	7.881E-11	2.374E-11
8.65631E-01	8.484E-10	6.709E-10	2.726E-10	9.142E-11	2.714E-11
9.44575E-01	1.182E-09	9.003E-10	3.404E-10	1.098E-10	3.185E-11
9.89401E-01	2.808E-09	1.862E-09	5.455E-10	1.549E-10	4.193E-11
TOTAL	5.805E-09	4.692E-09	2.018E-09	7.042E-10	2.147E-10

6.853E-09

7.628E-09

7.809E-09

7.842E-09

7.706E-09

7.392E-09

7.300E-09

1.371E-08

2.988E-09

3.303E-09

1.369E-09

5.953E-10

3.593E-10

2.901E-10

2.859E-10

2.474E-10

1.933E-10

1.818E-10

1.751E-10

1.714E-10

1.702E-10

1.700E-10

1.703E-10

1.706E-10

1.707E-10

## 2.350 TO 4.065 MEV NEUTRON SOURCE

4 PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(C4\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.209E-C8	1.408E-C8	1.692E-C8	1.857E-C8	1.925E-C8
-9.89401E-01	1.208E-C8	1.407E-C8	1.693E-C8	1.858E-C8	1.927E-C8
-9.44575E-01	1.206E-C8	1.407E-C8	1.696E-C8	1.864E-C8	1.937E-C8
-8.65631E-01	1.205E-C8	1.407E-C8	1.703E-C8	1.879E-C8	1.958E-C8
-7.55044E-01	1.206E-C8	1.412E-C8	1.719E-C8	1.906E-C8	1.994E-C8
-6.17876E-01	1.216E-C8	1.429E-C8	1.751E-C8	1.951E-C8	2.050E-C8
-4.58017E-01	1.241E-C8	1.463E-C8	1.806E-C8	2.024E-C8	2.136E-C8
-2.81605E-01	1.290E-C8	1.526E-C8	1.896E-C8	2.136E-C8	2.263E-C8
-9.50125E-02	1.375E-C8	1.630E-C8	2.036E-C8	2.302E-C8	2.446E-C8
9.50125E-02	1.787E-C8	1.983E-C8	2.452E-C8	2.430E-C8	2.580E-C8
2.81605E-01	2.055E-C8	2.114E-C8	2.603E-C8	2.997E-C8	3.182E-C8
4.58017E-01	2.106E-C8	2.754E-C8	2.960E-C8	3.358E-C8	3.548E-C8
6.17876E-01	2.650E-C8	3.153E-C8	3.846E-C8	4.345E-C8	4.544E-C8
7.55044E-01	4.509E-C8	4.171E-C8	5.440E-C8	5.679E-C8	5.804E-C8
8.65631E-01	1.064E-C7	7.663E-C8	7.860E-C8	8.373E-C8	8.372E-C8
9.44575E-01	2.580E-C7	2.34E-C7	1.713E-C7	1.547E-C7	1.424E-C7
9.89401E-01	1.088E-C6	1.083E-C6	9.535E-C7	7.769E-C7	6.226E-C7
TOTAL	5.570E-C7	5.543E-C7	5.607E-C7	5.558E-C7	5.403E-C7

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.515E-C8	1.255E-C8	5.196E-09	1.778E-09	5.332E-10
-9.89401E-01	1.518E-C8	1.228E-C8	5.211E-09	1.783E-09	5.348E-10
-9.44575E-01	1.533E-C8	1.241E-C8	5.272E-09	1.805E-09	5.415E-10
-8.65631E-01	1.561E-C8	1.266E-C8	5.389E-09	1.847E-09	5.541E-10
-7.55044E-01	1.605E-C8	1.304E-C8	5.564E-09	1.909E-09	5.729E-10
-6.17876E-01	1.669E-C8	1.358E-C8	5.811E-09	1.995E-09	5.990E-10
-4.58017E-01	1.758E-C8	1.433E-C8	6.141E-09	2.109E-09	6.332E-10
-2.81605E-01	1.878E-C8	1.533E-C8	6.574E-09	2.257E-09	6.774E-10
-9.50125E-02	2.039E-C8	1.664E-C8	7.133E-09	2.446E-09	7.333E-10
9.50125E-02	2.255E-C8	1.838E-C8	7.850E-09	2.685E-09	8.034E-10
2.81605E-01	2.544E-C8	2.068E-C8	8.772E-09	2.987E-09	8.912E-10
4.58017E-01	2.940E-C8	2.377E-C8	9.969E-09	3.371E-09	1.001E-09
6.17876E-01	3.500E-C8	2.804E-C8	1.155E-08	3.863E-09	1.139E-09
7.55044E-01	4.327E-C8	3.417E-C8	1.369E-08	4.506E-09	1.316E-09
8.65631E-01	5.642E-C8	4.361E-C8	1.674E-08	5.381E-09	1.548E-09
9.44575E-01	8.135E-C8	6.059E-C8	2.160E-08	6.692E-09	1.890E-09
9.89401E-01	2.063E-C7	1.339E-07	3.704E-08	1.004E-08	2.621E-09
TOTAL	3.655E-C7	2.867E-07	1.149E-07	3.814E-08	1.122E-08

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

0.0

## 2.350 TO 4.065 MEV NEUTRON SOURCE

4. PI R\*\*2 MID-PHANTOM DGSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00					
-9.89401E-01	3.639E-11	4.086E-11	4.650E-11	4.913E-11	4.974E-11
-9.44575E-01	3.638E-11	4.085E-11	4.650E-11	4.912E-11	4.973E-11
-8.65631E-01	3.634E-11	4.083E-11	4.655E-11	4.929E-11	4.998E-11
-7.55044E-01	3.629E-11	4.083E-11	4.670E-11	4.959E-11	5.042E-11
-6.17876E-01	3.634E-11	4.095E-11	4.705E-11	5.016E-11	5.077E-11
-4.58017E-01	3.664E-11	4.137E-11	4.778E-11	5.120E-11	5.219E-11
-2.81605E-01	3.739E-11	4.233E-11	4.919E-11	5.298E-11	5.439E-11
-9.50125E-02	3.892E-11	4.416E-11	5.163E-11	5.587E-11	5.768E-11
2.81605E-01	4.164E-11	4.732E-11	5.563E-11	6.039E-11	6.245E-11
6.17876E-01	5.665E-11	5.754E-11	6.641E-11	6.484E-11	6.691E-11
7.55044E-01	6.341E-11	6.390E-11	7.508E-11	8.010E-11	8.263E-11
8.65631E-01	8.981E-11	8.588E-11	8.415E-11	9.327E-11	9.550E-11
9.44575E-01	1.630E-10	9.802E-11	1.145E-10	1.242E-10	1.258E-10
9.89401E-01	1.630E-10	1.385E-10	1.733E-10	1.722E-10	1.700E-10
	4.100E-10	2.776E-10	2.601E-10	2.679E-10	2.593E-10
	1.038E-09	8.980E-10	6.283E-10	5.393E-10	4.786E-10
	4.422E-09	4.355E-09	3.771E-09	3.019E-09	2.373E-09
TOTAL	2.057E-09	1.964E-09	1.856E-09	1.743E-09	1.621E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00					
-9.89401E-01	3.895E-11	3.223E-11	1.480E-11	5.430E-12	1.716E-12
-9.44575E-01	3.902E-11	3.230E-11	1.484E-11	5.442E-12	1.720E-12
-8.65631E-01	3.934E-11	3.257E-11	1.498E-11	5.495E-12	1.736E-12
-7.55044E-01	3.995E-11	3.312E-11	1.524E-11	5.593E-12	1.767E-12
-6.17876E-01	4.091E-11	3.395E-11	1.564E-11	5.738E-12	1.812E-12
-4.58017E-01	4.231E-11	3.515E-11	1.620E-11	5.938E-12	1.874E-12
-2.81605E-01	4.430E-11	3.681E-11	1.694E-11	6.201E-12	1.955E-12
-9.50125E-02	4.708E-11	3.908E-11	1.792E-11	6.541E-12	2.058E-12
2.81605E-01	5.090E-11	4.215E-11	1.920E-11	6.972E-12	2.187E-12
6.17876E-01	5.619E-11	4.631E-11	2.085E-11	7.520E-12	2.348E-12
7.55044E-01	6.359E-11	5.202E-11	2.303E-11	8.219E-12	2.550E-12
8.65631E-01	7.425E-11	6.005E-11	2.594E-11	9.124E-12	2.806E-12
9.44575E-01	9.017E-11	7.177E-11	2.996E-11	1.033E-11	3.137E-12
9.89401E-01	1.152E-10	8.968E-11	3.574E-11	1.198E-11	3.579E-12
	1.576E-10	1.192E-10	4.462E-11	1.441E-11	4.206E-12
	2.434E-10	1.763E-10	6.025E-11	1.845E-11	5.200E-12
	7.128E-10	4.474E-10	1.149E-10	3.002E-11	7.726E-12
TOTAL	9.841E-10	7.647E-10	3.112E-10	1.070E-10	3.257E-11

1.232E-09

1.494E-09

1.621E-09

1.743E-09

1.856E-09

1.964E-09

2.057E-09

2.187E-12

2.348E-12

2.550E-12

2.806E-12

3.137E-12

3.579E-12

4.206E-12

5.200E-12

7.726E-12

9.084E-12

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

2.350 TO 4.665 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.421E-09	1.656E-09	1.993E-09	2.186E-09	2.265E-09
-9.89401E-01	1.421E-09	1.656E-09	1.994E-09	2.188E-09	2.263E-09
-9.44575E-01	1.420E-09	1.657E-09	1.994E-09	2.198E-09	2.279E-09
-8.65631E-01	1.421E-09	1.661E-09	2.011E-09	2.218E-09	2.311E-09
-7.55044E-01	1.427E-09	1.671E-09	2.034E-09	2.253E-09	2.362E-09
-6.17876E-01	1.443E-09	1.695E-09	2.075E-09	2.310E-09	2.440E-09
-4.58017E-01	1.477E-09	1.740E-09	2.145E-09	2.400E-09	2.554E-09
-2.81605E-01	1.539E-09	1.819E-09	2.256E-09	2.537E-09	2.718E-09
-9.50125E-02	1.644E-09	1.946E-09	2.426E-09	2.737E-09	2.947E-09
9.50125E-02	1.515E-09	2.387E-09	2.923E-09	2.896E-09	3.066E-09
2.81605E-01	2.468E-09	2.546E-09	3.128E-09	3.576E-09	3.690E-09
4.58017E-01	2.573E-09	3.298E-09	3.538E-09	4.027E-09	4.404E-09
6.17876E-01	3.310E-09	3.835E-09	4.683E-09	5.24CE-09	5.358E-09
7.55044E-01	5.793E-09	5.167E-09	6.637E-09	6.919E-09	7.000E-09
8.65631E-01	1.407E-08	9.841E-09	9.771E-09	1.032E-08	9.793E-09
9.44575E-01	3.368E-08	3.047E-08	2.201E-08	1.950E-08	1.617E-08
9.89401E-01	1.461E-07	1.441E-07	1.255E-07	1.012E-07	8.024E-08
TOTAL	7.169E-08	7.038E-08	6.991E-08	6.845E-08	6.592E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.763E-09	1.420E-09	5.942E-10	2.014E-10	5.995E-11
-9.89401E-01	1.767E-09	1.423E-09	5.959E-10	2.027E-10	6.013E-11
-9.44575E-01	1.785E-09	1.438E-09	6.030E-10	2.045E-10	6.09CE-11
-8.65631E-01	1.819E-09	1.468E-09	6.168E-10	2.094E-10	6.237E-11
-7.55044E-01	1.872E-09	1.513E-09	6.375E-10	2.166E-10	6.455E-11
-6.17876E-01	1.948E-09	1.578E-09	6.666E-10	2.267E-10	6.759E-11
-4.58017E-01	2.054E-09	1.666E-09	7.055E-10	2.401E-10	7.159E-11
-2.81605E-01	2.198E-09	1.785E-09	7.567E-10	2.575E-10	7.676E-11
-9.50125E-02	2.390E-09	1.942E-09	8.228E-10	2.797E-10	8.332E-11
9.50125E-02	2.648E-09	2.149E-09	9.080E-10	3.080E-10	9.159E-11
2.81605E-01	2.595E-09	2.425E-09	1.018E-09	3.438E-10	2.776E-11
4.58017E-01	3.474E-09	2.796E-09	1.161E-09	3.894E-10	3.121E-11
6.17876E-01	4.152E-09	3.312E-09	1.349E-09	4.480E-10	3.550E-11
7.55044E-01	5.160E-09	4.055E-09	1.606E-09	5.244E-10	4.086E-11
8.65631E-01	6.773E-09	5.204E-09	1.971E-09	6.282E-10	4.774E-11
9.44575E-01	9.845E-09	7.277E-09	2.559E-09	7.827E-10	5.717E-11
9.89401E-01	2.541E-08	1.629E-08	4.387E-09	1.171E-09	7.587E-11
TOTAL	4.339E-08	3.382E-08	1.337E-08	4.394E-09	1.284E-09

300.0

400.0

250.0

200.0

150.0

100.0

75.0

50.0

25.0

12.5

6.25

3.125

## 2.350 TO 4.065 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-01	1.525E-09	1.729E-09	1.997E-09	2.128E-09	2.165E-09
-9.89401E-01	1.526E-09	1.730E-09	1.998E-09	2.129E-09	2.166E-09
-9.44575E-01	1.530E-09	1.735E-09	2.008E-09	2.145E-09	2.182E-09
-8.65631E-01	1.538E-09	1.746E-09	2.035E-09	2.165E-09	2.202E-09
-7.55044E-01	1.552E-09	1.765E-09	2.058E-09	2.203E-09	2.233E-09
-6.17876E-01	1.577E-09	1.796E-09	2.099E-09	2.261E-09	2.319E-09
-4.58017E-01	1.622E-09	1.851E-09	2.173E-09	2.352E-09	2.421E-09
-2.81605E-01	1.701E-09	1.943E-09	2.293E-09	2.491E-09	2.572E-09
-9.50125E-02	1.831E-09	2.093E-09	2.480E-09	2.701E-09	2.794E-09
9.50125E-02	2.519E-09	2.594E-09	2.988E-09	2.911E-09	3.004E-09
2.81605E-01	2.796E-09	2.873E-09	3.394E-09	3.603E-09	3.717E-09
4.58017E-01	3.107E-09	3.700E-09	3.743E-09	4.224E-09	4.323E-09
6.17876E-01	4.289E-09	4.493E-09	5.333E-09	5.676E-09	5.736E-09
7.55044E-01	8.200E-09	6.553E-09	7.986E-09	7.987E-09	7.857E-09
8.65631E-01	2.152E-08	1.395E-08	1.242E-08	1.265E-08	1.216E-08
9.44575E-01	5.135E-08	4.630E-08	3.152E-08	2.629E-08	2.294E-08
9.89401E-01	2.354E-07	2.285E-07	1.947E-07	1.535E-07	1.186E-07
TOTAL	1.034E-07	9.696E-08	8.945E-08	8.263E-08	7.579E-08

COSINE	RANGE (METERS)				
	500.0	600.0	700.0	1200.0	1500.0
-1.00000E-01	1.676E-09	1.375E-09	6.198E-10	2.251E-10	7.083E-11
-9.89401E-01	1.679E-09	1.378E-09	6.212E-10	2.257E-10	7.100E-11
-9.44575E-01	1.695E-09	1.391E-09	6.274E-10	2.279E-10	7.170E-11
-8.65631E-01	1.724E-09	1.417E-09	6.393E-10	2.322E-10	7.302E-11
-7.55044E-01	1.770E-09	1.455E-09	6.571E-10	2.385E-10	7.498E-11
-6.17876E-01	1.836E-09	1.511E-09	6.800E-10	2.474E-10	7.768E-11
-4.58017E-01	1.929E-09	1.588E-09	7.154E-10	2.590E-10	8.120E-11
-2.81605E-01	2.057E-09	1.692E-09	7.596E-10	2.740E-10	8.573E-11
9.50125E-02	2.233E-09	1.832E-09	8.171E-10	2.933E-10	9.144E-11
2.81605E-01	2.476E-09	2.022E-09	8.921E-10	3.179E-10	9.861E-11
4.58017E-01	2.815E-09	2.283E-09	9.907E-10	3.493E-10	1.076E-10
6.17876E-01	3.305E-09	2.651E-09	1.123E-09	3.900E-10	1.191E-10
7.55044E-01	4.039E-09	3.188E-09	1.304E-09	4.438E-10	1.338E-10
8.65631E-01	5.195E-09	4.009E-09	1.563E-09	5.170E-10	1.531E-10
9.44575E-01	7.160E-09	5.358E-09	1.956E-09	6.220E-10	1.798E-10
9.89401E-01	1.113E-08	7.948E-09	2.632E-09	7.898E-10	2.203E-10
TOTAL	3.302E-08	2.023E-08	4.932E-09	1.252E-09	3.165E-10

3.803E-10



4 PI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 EROS/GRAM/STERADIAN/SOURCE NEUTRON) 2.350 TO 4.065 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.136E-10	1.302E-10	1.528E-10	1.644E-10	1.676E-10
-9.89401E-01	1.136E-10	1.302E-10	1.528E-10	1.644E-10	1.676E-10
-9.44575E-01	1.136E-10	1.302E-10	1.528E-10	1.644E-10	1.676E-10
-8.65631E-01	1.136E-10	1.302E-10	1.528E-10	1.644E-10	1.676E-10
-7.55044E-01	1.141E-10	1.314E-10	1.541E-10	1.666E-10	1.707E-10
-6.17876E-01	1.153E-10	1.331E-10	1.558E-10	1.692E-10	1.733E-10
-4.58017E-01	1.180E-10	1.366E-10	1.588E-10	1.733E-10	1.799E-10
-2.81605E-01	1.230E-10	1.428E-10	1.640E-10	1.800E-10	1.868E-10
-9.50125E-02	1.316E-10	1.530E-10	1.859E-10	1.904E-10	1.983E-10
2.81005E-01	1.761E-10	1.873E-10	2.234E-10	2.194E-10	2.290E-10
4.58317E-01	1.984E-10	2.034E-10	2.451E-10	2.716E-10	2.839E-10
6.17876E-01	2.107E-10	2.679E-10	2.761E-10	3.108E-10	3.228E-10
7.55044E-01	2.779E-10	3.103E-10	3.721E-10	4.098E-10	4.211E-10
8.65631E-01	5.002E-10	4.301E-10	5.438E-10	5.548E-10	5.561E-10
9.44575E-01	1.247E-09	8.511E-10	8.129E-10	8.471E-10	8.304E-10
9.89401E-01	3.015E-09	2.710E-09	1.915E-09	1.661E-09	1.489E-09
	1.327E-08	1.305E-08	1.129E-08	9.647E-09	7.119E-09
TOTAL	6.256E-09	6.035E-09	5.821E-09	5.565E-09	5.249E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.242E-10	9.872E-11	4.015E-11	1.333E-11	3.910E-12
-9.89401E-01	1.242E-10	9.872E-11	4.015E-11	1.333E-11	3.910E-12
-9.44575E-01	1.242E-10	9.872E-11	4.015E-11	1.333E-11	3.910E-12
-8.65631E-01	1.282E-10	1.001E-10	4.078E-11	1.355E-11	3.923E-12
-7.55044E-01	1.320E-10	1.034E-10	4.175E-11	1.390E-11	4.081E-12
-6.17876E-01	1.376E-10	1.101E-10	4.323E-11	1.441E-11	4.235E-12
-4.58017E-01	1.453E-10	1.165E-10	4.531E-11	1.513E-11	4.449E-12
-2.81605E-01	1.558E-10	1.252E-10	4.811E-11	1.608E-11	4.732E-12
-9.50125E-02	1.701E-10	1.368E-10	5.180E-11	1.733E-11	5.100E-12
2.81005E-01	1.894E-10	1.522E-10	5.661E-11	1.893E-11	5.570E-12
4.58317E-01	2.158E-10	1.729E-10	6.284E-11	2.098E-11	6.165E-12
6.17876E-01	2.529E-10	2.014E-10	7.096E-11	2.360E-11	6.917E-12
7.55044E-01	3.065E-10	2.416E-10	8.165E-11	2.697E-11	7.871E-12
8.65631E-01	3.879E-10	3.010E-10	9.603E-11	3.136E-11	9.090E-12
9.44575E-01	5.215E-10	3.951E-10	1.159E-10	3.721E-11	1.067E-11
9.89401E-01	7.830E-10	5.701E-10	1.453E-10	4.530E-11	1.281E-11
	2.164E-09	1.365E-09	1.938E-10	5.802E-11	1.596E-11
TOTAL	3.236E-09	2.482E-09	9.491E-10	3.057E-10	8.809E-11

4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 2.350 TO 4.065 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.668E-10	1.936E-10	2.310E-10	2.514E-10	2.586E-10
-9.89401E-01	1.667E-10	1.935E-10	2.310E-10	2.514E-10	2.589E-10
-9.44575E-01	1.663E-10	1.932E-10	2.313E-10	2.524E-10	2.582E-10
-8.55631E-01	1.659E-10	1.931E-10	2.321E-10	2.542E-10	2.629E-10
-7.55044E-01	1.558E-10	1.936E-10	2.341E-10	2.674E-10	2.672E-10
-6.17876E-01	1.670E-10	1.955E-10	2.381E-10	2.731E-10	2.752E-10
-4.58017E-01	1.701E-10	2.000E-10	2.455E-10	2.736E-10	2.869E-10
-2.81605E-01	1.766E-10	2.083E-10	2.576E-10	2.987E-10	3.042E-10
-9.50125E-02	1.879E-10	2.223E-10	2.766E-10	3.113E-10	3.291E-10
9.50125E-02	2.440E-10	2.691E-10	3.338E-10	3.284E-10	3.472E-10
2.81605E-01	2.891E-10	2.876E-10	3.533E-10	4.064E-10	4.301E-10
4.58017E-01	2.847E-10	3.768E-10	4.026E-10	4.547E-10	4.792E-10
6.17876E-01	3.555E-10	4.272E-10	5.194E-10	5.886E-10	6.148E-10
7.55044E-01	5.945E-10	5.595E-10	7.362E-10	7.669E-10	7.837E-10
8.55631E-01	1.380E-09	1.011E-09	1.054E-09	1.126E-09	1.128E-09
9.44575E-01	3.389E-09	3.037E-09	2.260E-09	2.061E-09	1.907E-09
9.89401E-01	1.405E-08	1.407E-08	1.246E-08	1.021E-08	8.236E-09
TOTAL	7.348E-09	7.359E-09	7.497E-09	7.452E-09	7.250E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.949E-10	1.551E-10	6.299E-11	2.089E-11	6.095E-12
-9.89401E-01	1.954E-10	1.555E-10	6.318E-11	2.091E-11	6.115E-12
-9.44575E-01	1.973E-10	1.572E-10	6.398E-11	2.120E-11	6.201E-12
-8.55631E-01	2.012E-10	1.606E-10	6.554E-11	2.174E-11	6.364E-12
-7.55044E-01	2.071E-10	1.657E-10	6.787E-11	2.252E-11	6.607E-12
-6.17876E-01	2.158E-10	1.731E-10	7.117E-11	2.369E-11	6.947E-12
-4.58017E-01	2.279E-10	1.832E-10	7.561E-11	2.520E-11	7.396E-12
-2.81605E-01	2.444E-10	1.963E-10	8.145E-11	2.718E-11	7.980E-12
-9.50125E-02	2.605E-10	2.148E-10	8.904E-11	2.972E-11	8.725E-12
9.50125E-02	2.941E-10	2.387E-10	9.883E-11	3.296E-11	9.668E-12
2.81605E-01	3.358E-10	2.703E-10	1.115E-10	3.708E-11	1.086E-11
4.58017E-01	3.904E-10	3.129E-10	1.280E-10	4.235E-11	1.236E-11
6.17876E-01	4.671E-10	3.716E-10	1.498E-10	4.916E-11	1.427E-11
7.55044E-01	5.801E-10	4.558E-10	1.794E-10	5.808E-11	1.672E-11
8.55631E-01	7.591E-10	5.850E-10	2.217E-10	7.026E-11	1.996E-11
9.44575E-01	1.098E-09	8.176E-10	2.898E-10	8.806E-11	2.464E-11
9.89401E-01	2.788E-09	1.818E-09	5.038E-10	1.357E-10	3.516E-11
TOTAL	4.840E-09	3.765E-09	1.470E-09	4.764E-10	1.376E-10

COSINE	RANGE (METERS)				
	1800.0	1500.0	1200.0	900.0	600.0
-1.00000E-00	1.643E-12	6.095E-12	2.089E-11	6.299E-11	1.551E-10
-9.89401E-01	1.648E-12	6.115E-12	2.091E-11	6.318E-11	1.555E-10
-9.44575E-01	1.672E-12	6.201E-12	2.120E-11	6.398E-11	1.572E-10
-8.55631E-01	1.717E-12	6.364E-12	2.174E-11	6.554E-11	1.606E-10
-7.55044E-01	1.783E-12	6.607E-12	2.252E-11	6.787E-11	1.657E-10
-6.17876E-01	1.876E-12	6.947E-12	2.369E-11	7.117E-11	1.731E-10
-4.58017E-01	1.998E-12	7.396E-12	2.520E-11	7.561E-11	1.832E-10
-2.81605E-01	2.156E-12	7.980E-12	2.718E-11	8.145E-11	1.963E-10
-9.50125E-02	2.357E-12	8.725E-12	2.972E-11	8.904E-11	2.148E-10
9.50125E-02	2.610E-12	9.668E-12	3.296E-11	9.883E-11	2.387E-10
2.81605E-01	2.928E-12	1.086E-11	3.708E-11	1.115E-10	2.703E-10
4.58017E-01	3.326E-12	1.236E-11	4.235E-11	1.280E-10	3.129E-10
6.17876E-01	3.825E-12	1.427E-11	4.916E-11	1.498E-10	3.716E-10
7.55044E-01	4.456E-12	1.672E-11	5.808E-11	1.794E-10	4.558E-10
8.55631E-01	5.276E-12	1.996E-11	7.026E-11	2.217E-10	5.850E-10
9.44575E-01	6.423E-12	2.464E-11	8.806E-11	2.898E-10	8.176E-10
9.89401E-01	8.784E-12	3.516E-11	1.357E-10	5.038E-10	1.818E-09
TOTAL	3.677E-11	1.376E-10	4.764E-10	1.470E-09	3.765E-09

TOTAL

4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(C\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

2.350 TO 4.065 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.460E-13	2.103E-13	3.626E-13	5.310E-13	6.989E-13
-9.89401E-01	1.465E-13	2.109E-13	3.637E-13	5.328E-13	7.015E-13
-9.44575E-01	1.482E-13	2.134E-13	3.681E-13	5.398E-13	7.115E-13
-8.65631E-01	1.515E-13	2.180E-13	3.763E-13	5.528E-13	7.302E-13
-7.55044E-01	1.563E-13	2.246E-13	3.878E-13	5.710E-13	7.565E-13
-6.17876E-01	1.628E-13	2.332E-13	4.025E-13	5.943E-13	7.904E-13
-4.58017E-01	1.712E-13	2.443E-13	4.211E-13	6.236E-13	8.333E-13
-2.81005E-01	1.823E-13	2.585E-13	4.445E-13	6.602E-13	8.869E-13
-9.50125E-02	1.971E-13	2.775E-13	4.743E-13	7.059E-13	9.534E-13
9.50125E-02	2.206E-13	3.351E-13	4.995E-13	7.686E-13	1.041E-12
2.81605E-01	2.651E-13	3.336E-13	5.685E-13	8.260E-13	1.127E-12
4.58017E-01	2.997E-13	4.308E-13	6.189E-13	9.245E-13	1.257E-12
6.17876E-01	3.111E-13	4.369E-13	7.225E-13	1.031E-12	1.398E-12
7.55044E-01	3.763E-13	5.622E-13	8.902E-13	1.214E-12	1.613E-12
8.65631E-01	5.511E-13	6.776E-13	1.084E-12	1.515E-12	1.941E-12
9.44575E-01	8.059E-13	1.099E-12	1.583E-12	2.088E-12	2.604E-12
9.89401E-01	1.151E-12	1.743E-12	2.755E-12	3.578E-12	4.289E-12
TOTAL	3.388E-12	4.754E-12	7.653E-12	1.100E-11	1.456E-11

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.183E-12	1.168E-12	7.620E-13	3.544E-13	1.377E-13
-9.89401E-01	1.189E-12	1.174E-12	7.672E-13	3.579E-13	1.401E-13
-9.44575E-01	1.212E-12	1.199E-12	7.882E-13	3.717E-13	1.487E-13
-8.65631E-01	1.256E-12	1.247E-12	8.268E-13	3.948E-13	1.614E-13
-7.55044E-01	1.320E-12	1.316E-12	8.812E-13	4.237E-13	1.744E-13
-6.17876E-01	1.407E-12	1.410E-12	9.553E-13	4.605E-13	1.882E-13
-4.58017E-01	1.521E-12	1.537E-12	1.057E-12	5.112E-13	2.069E-13
-2.81005E-01	1.670E-12	1.705E-12	1.198E-12	5.860E-13	2.376E-13
-9.50125E-02	1.862E-12	1.926E-12	1.396E-12	6.974E-13	2.876E-13
9.50125E-02	2.106E-12	2.215E-12	1.672E-12	8.609E-13	3.640E-13
2.81605E-01	2.412E-12	2.586E-12	2.056E-12	1.102E-12	4.789E-13
4.58017E-01	2.787E-12	3.058E-12	2.595E-12	1.466E-12	6.615E-13
6.17876E-01	3.240E-12	3.648E-12	3.348E-12	2.033E-12	9.754E-13
7.55044E-01	3.779E-12	4.360E-12	4.376E-12	2.919E-12	1.534E-12
8.65631E-01	4.424E-12	5.200E-12	5.700E-12	4.231E-12	2.490E-12
9.44575E-01	5.282E-12	6.203E-12	7.226E-12	5.933E-12	3.920E-12
9.89401E-01	7.034E-12	7.862E-12	8.860E-12	7.658E-12	5.505E-12
TOTAL	2.969E-11	3.222E-11	2.811E-11	1.745E-11	9.092E-12

RANGE (METERS)				
1800.0	1500.0	1200.0	900.0	600.0
4.857E-14	1.377E-13	3.544E-13	7.620E-13	1.168E-12
5.010E-14	1.401E-13	3.579E-13	7.672E-13	1.174E-12
5.527E-14	1.487E-13	3.717E-13	7.882E-13	1.199E-12
6.253E-14	1.614E-13	3.948E-13	8.268E-13	1.247E-12
6.809E-14	1.744E-13	4.237E-13	8.812E-13	1.316E-12
7.193E-14	1.882E-13	4.605E-13	9.553E-13	1.410E-12
7.722E-14	2.069E-13	5.112E-13	1.057E-12	1.537E-12
8.801E-14	2.376E-13	5.860E-13	1.198E-12	1.705E-12
1.086E-13	2.876E-13	6.974E-13	1.396E-12	1.926E-12
1.408E-13	3.640E-13	8.609E-13	1.672E-12	2.215E-12
1.880E-13	4.789E-13	1.102E-12	2.056E-12	2.586E-12
2.642E-13	6.615E-13	1.466E-12	2.595E-12	3.058E-12
4.075E-13	9.754E-13	2.033E-12	3.348E-12	3.648E-12
6.981E-13	1.534E-12	2.919E-12	4.376E-12	4.360E-12
1.270E-12	2.490E-12	4.231E-12	5.700E-12	5.200E-12
2.257E-12	3.920E-12	5.933E-12	7.226E-12	6.203E-12
3.497E-12	5.505E-12	7.658E-12	8.860E-12	7.862E-12
4.333E-12	9.092E-12	1.745E-11	2.811E-11	3.222E-11

## 2.350 TO 4.065 MEV NEUTRON SOURCE

4 P1 R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	1.466E-11	2.137E-11	3.731E-11	5.501E-11	8.902E-11
-9.89401E-01	1.471E-11	2.143E-11	3.742E-11	5.519E-11	8.936E-11
-9.44575E-01	1.487E-11	2.167E-11	3.785E-11	5.588E-11	9.067E-11
-8.65631E-01	1.519E-11	2.211E-11	3.866E-11	5.717E-11	9.314E-11
-7.55044E-01	1.565E-11	2.275E-11	3.979E-11	5.897E-11	9.665E-11
-6.17876E-01	1.627E-11	2.358E-11	4.123E-11	6.129E-11	1.012E-10
-4.58017E-01	1.707E-11	2.465E-11	4.306E-11	6.419E-11	1.071E-10
-2.81605E-01	1.813E-11	2.603E-11	4.535E-11	6.782E-11	1.144E-10
-9.50125E-02	1.953E-11	2.782E-11	4.825E-11	7.232E-11	1.235E-10
2.81605E-01	2.175E-11	3.327E-11	5.075E-11	7.845E-11	1.345E-10
4.58017E-01	2.593E-11	3.317E-11	5.732E-11	8.411E-11	1.480E-10
6.17876E-01	2.919E-11	4.232E-11	6.222E-11	9.363E-11	1.635E-10
7.55044E-01	3.029E-11	4.295E-11	7.205E-11	1.040E-10	1.828E-10
8.65631E-01	3.642E-11	5.472E-11	8.791E-11	1.214E-10	2.071E-10
9.44575E-01	5.279E-11	6.560E-11	1.062E-10	1.499E-10	2.429E-10
9.89401E-01	7.663E-11	1.051E-10	1.531E-10	2.038E-10	3.091E-10
	1.039E-10	1.653E-10	2.628E-10	3.435E-10	4.788E-10
TOTAL	3.309E-10	4.689E-10	7.665E-10	1.111E-09	.855E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.251E-10	1.244E-10	8.370E-11	4.074E-11	6.476E-12
-9.89401E-01	1.257E-10	1.250E-10	8.423E-11	4.110E-11	6.525E-12
-9.44575E-01	1.280E-10	1.275E-10	8.635E-11	4.249E-11	7.147E-12
-8.65631E-01	1.324E-10	1.323E-10	9.026E-11	4.483E-11	7.880E-12
-7.55044E-01	1.388E-10	1.393E-10	9.577E-11	4.779E-11	8.458E-12
-6.17876E-01	1.475E-10	1.488E-10	1.033E-10	5.155E-11	8.877E-12
-4.58017E-01	1.590E-10	1.615E-10	1.135E-10	5.672E-11	9.446E-12
-2.81605E-01	1.739E-10	1.784E-10	1.278E-10	6.430E-11	1.056E-11
-9.50125E-02	1.932E-10	2.005E-10	1.476E-10	7.550E-11	1.265E-11
2.81605E-01	2.176E-10	2.294E-10	1.752E-10	9.187E-11	1.587E-11
4.58017E-01	2.480E-10	2.664E-10	2.136E-10	1.159E-10	2.059E-11
6.17876E-01	2.854E-10	3.134E-10	2.672E-10	1.521E-10	2.816E-11
7.55044E-01	3.304E-10	3.720E-10	3.421E-10	2.085E-10	4.233E-11
8.65631E-01	4.471E-10	4.428E-10	4.443E-10	2.964E-10	7.103E-11
9.44575E-01	5.302E-10	5.258E-10	5.757E-10	4.267E-10	1.277E-10
9.89401E-01	6.961E-10	6.238E-10	7.269E-10	5.958E-10	2.258E-10
	3.048E-09	3.314E-09	2.904E-09	1.811E-09	4.530E-10
TOTAL	3.048E-09	3.314E-09	2.904E-09	1.811E-09	4.530E-10

2.350 TO 4.065 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KEPMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.0000E-00	1.736E-11	2.585E-11	4.608E-11	6.863E-11	9.144E-11
-9.8940E-01	1.740E-11	2.591E-11	4.619E-11	6.881E-11	9.170E-11
-9.4457E-01	1.758E-11	2.616E-11	4.664E-11	6.953E-11	9.272E-11
-8.6563E-01	1.790E-11	2.662E-11	4.748E-11	7.057E-11	9.464E-11
-7.5504E-01	1.837E-11	2.728E-11	4.865E-11	7.273E-11	9.735E-11
-6.1787E-01	1.901E-11	2.815E-11	5.017E-11	7.514E-11	1.009E-10
-4.5801E-01	1.983E-11	2.925E-11	5.208E-11	7.817E-11	1.053E-10
-2.8160E-01	2.091E-11	3.069E-11	5.448E-11	8.193E-11	1.107E-10
-9.5012E-02	2.233E-11	3.254E-11	5.750E-11	8.660E-11	1.175E-10
9.5012E-02	2.457E-11	3.798E-11	6.016E-11	9.291E-11	1.264E-10
2.8160E-01	2.874E-11	3.803E-11	6.686E-11	9.882E-11	1.351E-10
4.5801E-01	3.202E-11	4.713E-11	7.196E-11	1.086E-10	1.485E-10
6.1787E-01	3.319E-11	4.792E-11	8.193E-11	1.192E-10	1.625E-10
7.5504E-01	3.930E-11	5.964E-11	9.786E-11	1.367E-10	1.829E-10
8.6563E-01	5.542E-11	7.049E-11	1.162E-10	1.653E-10	2.143E-10
9.4457E-01	7.883E-11	1.093E-10	1.625E-10	2.187E-10	2.762E-10
9.8940E-01	1.105E-10	1.683E-10	2.702E-10	3.558E-10	4.314E-10
TOTAL	3.655E-10	5.277E-10	8.836E-10	1.293E-09	1.726E-09
					2.163E-09
					2.964E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.0000E-00	1.665E-10	1.713E-10	1.313E-10	7.497E-11	3.705E-11
-9.8940E-01	1.671E-10	1.720E-10	1.319E-10	7.536E-11	3.730E-11
-9.4457E-01	1.696E-10	1.746E-10	1.342E-10	7.690E-11	3.826E-11
-8.6563E-01	1.741E-10	1.795E-10	1.384E-10	7.954E-11	3.974E-11
-7.5504E-01	1.807E-10	1.868E-10	1.444E-10	8.296E-11	4.145E-11
-6.1787E-01	1.897E-10	1.967E-10	1.525E-10	8.736E-11	4.329E-11
-4.5801E-01	2.013E-10	2.097E-10	1.635E-10	9.328E-11	4.578E-11
-2.8160E-01	2.164E-10	2.268E-10	1.784E-10	1.015E-10	4.952E-11
-9.5012E-02	2.357E-10	2.490E-10	1.987E-10	1.136E-10	5.514E-11
9.5012E-02	2.599E-10	2.776E-10	2.264E-10	1.305E-10	6.332E-11
2.8160E-01	2.898E-10	3.139E-10	2.642E-10	1.546E-10	7.513E-11
4.5801E-01	3.263E-10	3.595E-10	3.162E-10	1.900E-10	9.320E-11
6.1787E-01	3.698E-10	4.157E-10	3.876E-10	2.440E-10	1.232E-10
7.5504E-01	4.213E-10	4.833E-10	4.840E-10	3.268E-10	1.754E-10
8.6563E-01	4.824E-10	5.622E-10	6.069E-10	4.480E-10	2.635E-10
9.4457E-01	5.627E-10	6.558E-10	7.477E-10	5.641E-10	3.943E-10
9.8940E-01	7.245E-10	8.089E-10	8.978E-10	7.618E-10	5.387E-10
TOTAL	3.560E-09	3.888E-09	3.490E-09	2.242E-09	1.207E-09
					5.911E-10

## 2.350 TO 4.065 MEV NEUTRON SOURCE

<sup>4</sup>PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	1.505E-11	2.201E-11	3.860E-11	5.705E-11	9.260E-11
-9.89401E-01	1.509E-11	2.207E-11	3.871E-11	5.723E-11	9.294E-11
-9.44575E-01	1.526E-11	2.231E-11	3.915E-11	5.794E-11	9.428E-11
-8.65631E-01	1.558E-11	2.276E-11	3.996E-11	5.925E-11	9.680E-11
-7.55044E-01	1.604E-11	2.340E-11	4.111E-11	6.108E-11	1.004E-10
-6.17876E-01	1.666E-11	2.424E-11	4.250E-11	6.344E-11	1.051E-10
-4.58017E-01	1.747E-11	2.532E-11	4.442E-11	6.639E-11	1.110E-10
-2.81655E-01	1.853E-11	2.671E-11	4.675E-11	7.008E-11	1.185E-10
-9.50125E-02	1.994E-11	2.852E-11	4.968E-11	7.465E-11	1.278E-10
9.50125E-02	2.218E-11	3.400E-11	5.222E-11	8.086E-11	1.390E-10
2.81605E-01	2.638E-11	3.391E-11	5.884E-11	8.661E-11	1.527E-10
4.58317E-01	2.967E-11	4.310E-11	6.378E-11	9.623E-11	1.685E-10
6.17876E-01	3.677E-11	4.374E-11	7.368E-11	1.067E-10	1.881E-10
7.55044E-01	3.692E-11	5.575E-11	8.962E-11	1.242E-10	2.126E-10
8.65631E-01	5.338E-11	6.649E-11	1.080E-10	1.529E-10	2.489E-10
9.44575E-01	7.115E-11	1.622E-10	1.551E-10	2.071E-10	3.154E-10
9.89401E-01	1.098E-10	1.667E-10	2.654E-10	3.475E-10	4.861E-10
TOTAL	3.366E-10	4.782E-10	7.854E-10	1.142E-09	1.912E-09

2.625E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.307E-10	1.303E-10	8.864E-11	4.380E-11	7.265E-12
-9.89401E-01	1.313E-10	1.309E-10	8.917E-11	4.417E-11	7.429E-12
-9.44575E-01	1.337E-10	1.335E-10	9.134E-11	4.559E-11	7.953E-12
-8.65631E-01	1.382E-10	1.384E-10	9.533E-11	4.798E-11	8.703E-12
-7.55044E-01	1.448E-10	1.455E-10	1.010E-10	5.099E-11	9.290E-12
-6.17876E-01	1.536E-10	1.552E-10	1.086E-10	5.482E-11	9.711E-12
-4.58017E-01	1.654E-10	1.682E-10	1.191E-10	6.008E-11	1.028E-11
-2.81605E-01	1.806E-10	1.855E-10	1.336E-10	6.779E-11	1.141E-11
-9.50125E-02	2.003E-10	2.081E-10	1.539E-10	7.921E-11	1.352E-11
9.50125E-02	2.252E-10	2.376E-10	1.820E-10	9.590E-11	1.680E-11
2.81605E-01	2.563E-10	2.755E-10	2.212E-10	1.204E-10	2.158E-11
4.58017E-01	2.945E-10	3.235E-10	2.760E-10	1.574E-10	2.927E-11
6.17876E-01	3.404E-10	3.833E-10	3.526E-10	2.150E-10	4.370E-11
7.55044E-01	3.949E-10	4.557E-10	4.572E-10	3.049E-10	7.302E-11
8.65631E-01	4.594E-10	5.404E-10	5.917E-10	4.383E-10	1.310E-10
9.44575E-01	5.436E-10	6.401E-10	7.464E-10	6.117E-10	2.317E-10
9.89401E-01	7.108E-10	7.999E-10	9.091E-10	7.865E-10	3.588E-10
TOTAL	3.149E-09	3.426E-09	3.006E-09	1.877E-09	4.764E-10

4.764E-10

1.108 TO 2.35 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9445	ANGLE 4 MU=-0.8556	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	3.679E-04	3.761E-04	4.142E-04	5.073E-04	6.879E-04	1.003E-03	1.516E-03	2.309E-03	3.501E-03
5.50E-01--1.11E 00	2.281E-02	2.287E-02	2.316E-02	2.376E-02	2.475E-02	2.621E-02	2.830E-02	3.121E-02	3.521E-02
1.11E-01--5.50E-01	3.960E-02	3.965E-02	3.986E-02	4.030E-02	4.104E-02	4.214E-02	4.371E-02	4.588E-02	4.855E-02
3.35E-02--1.11E-01	3.288E-02	3.294E-02	3.315E-02	3.357E-02	3.419E-02	3.500E-02	3.603E-02	3.729E-02	3.879E-02
5.83E-04--3.35E-02	1.487E-01	1.488E-01	1.492E-01	1.500E-01	1.512E-01	1.527E-01	1.545E-01	1.566E-01	1.589E-01
1.01E-04--5.83E-04	1.140E-01	1.140E-01	1.142E-01	1.146E-01	1.152E-01	1.159E-01	1.168E-01	1.177E-01	1.188E-01
2.90E-05--1.01E-04	6.283E 00	6.285E 00	6.294E 00	6.312E 00	6.336E 00	6.367E 00	6.403E 00	6.444E 00	6.488E 00
1.07E-05--2.90E-05	2.577E 01	2.578E 01	2.581E 01	2.587E 01	2.596E 01	2.607E 01	2.619E 01	2.634E 01	2.649E 01
3.06E-06--1.07E-05	7.249E 01	7.251E 01	7.259E 01	7.275E 01	7.297E 01	7.325E 01	7.357E 01	7.394E 01	7.433E 01
1.12E-06--3.06E-06	1.867E 02	1.867E 02	1.869E 02	1.873E 02	1.878E 02	1.885E 02	1.892E 02	1.901E 02	1.910E 02
4.14E-07--1.12E-06	4.860E 02	4.861E 02	4.866E 02	4.875E 02	4.887E 02	4.903E 02	4.921E 02	4.941E 02	4.963E 02
0.0 ----4.14E-07	1.038E 03	1.038E 03	1.039E 03	1.040E 03	1.043E 03	1.046E 03	1.050E 03	1.054E 03	1.058E 03
	1.471E 03	1.471E 03	1.472E 03	1.475E 03	1.478E 03	1.482E 03	1.487E 03	1.492E 03	1.497E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	7.809E-03	7.118E-03	9.467E-03	3.377E-02	7.261E-02	1.683E-01	4.058E-01	2.218E 00	7.638E-01
5.50E-01--1.11E 00	3.941E-02	4.444E-02	5.602E-02	7.693E-02	1.087E-01	2.050E-01	3.300E-01	2.099E 00	1.221E 00
1.11E-01--5.50E-01	7.703E-02	6.175E-02	6.866E-02	7.184E-02	8.653E-02	1.191E-01	1.564E-01	1.875E-01	8.106E-01
3.35E-02--1.11E-01	4.059E-02	4.276E-02	4.499E-02	4.737E-02	5.065E-02	5.478E-02	5.742E-02	6.024E-02	5.204E-01
5.83E-04--3.35E-02	1.615E-01	1.642E-01	1.669E-01	1.696E-01	1.721E-01	1.745E-01	1.762E-01	1.770E-01	2.024E 00
1.01E-04--5.83E-04	1.199E 00	1.210E 00	1.222E 00	1.232E 00	1.241E 00	1.249E 00	1.255E 00	1.257E 00	1.502E 00
2.90E-05--1.01E-04	6.535E 00	6.581E 00	6.626E 00	6.666E 00	6.702E 00	6.732E 00	6.753E 00	6.763E 00	8.188E 00
1.07E-05--2.90E-05	2.665E 01	2.681E 01	2.696E 01	2.710E 01	2.722E 01	2.732E 01	2.739E 01	2.742E 01	3.340E 02
3.06E-06--1.07E-05	7.473E 01	7.514E 01	7.552E 01	7.587E 01	7.617E 01	7.642E 01	7.660E 01	7.668E 01	9.369E 02
1.12E-06--3.06E-06	1.919E 02	1.928E 02	1.937E 02	1.945E 02	1.952E 02	1.958E 02	1.962E 02	1.964E 02	2.406E 02
4.14E-07--1.12E-06	4.986E 02	5.008E 02	5.029E 02	5.048E 02	5.078E 02	5.088E 02	5.092E 02	5.092E 02	6.252E 03
0.0 ----4.14E-07	1.063E 03	1.067E 03	1.071E 03	1.075E 03	1.078E 03	1.081E 03	1.083E 03	1.084E 03	1.333E 04
	1.502E 03	1.508E 03	1.513E 03	1.518E 03	1.522E 03	1.525E 03	1.527E 03	1.528E 03	1.885E 04

## 1.108 TO 2.35 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0094	ANGLE 3 MU=0.0446	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0179	ANGLE 7 MU=0.0450	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	5.421E-04	5.530E-04	6.032E-04	7.230E-04	9.503E-04	1.341E-03	1.969E-03	2.934E-03	4.378E-03
1.11E 00--1.83E 00	2.633E-02	2.642E-02	2.680E-02	2.758E-02	2.883E-02	3.069E-02	3.333E-02	3.697E-02	4.197E-02
5.50E 01--1.11E 00	5.937E-02	5.949E-02	5.998E-02	6.099E-02	6.257E-02	6.487E-02	6.804E-02	7.233E-02	7.804E-02
1.11E 01--5.50E 01	7.940E-02	7.956E-02	8.021E-02	8.147E-02	8.330E-02	8.575E-02	8.882E-02	9.262E-02	9.715E-02
3.35E 02--1.11E 01	4.509E-01	4.514E-01	4.533E-01	4.569E-01	4.621E-01	4.688E-01	4.770E-01	4.865E-01	4.972E-01
5.83E 04--3.35E 02	3.688E-01	3.691E-01	3.702E-01	3.723E-01	3.753E-01	3.791E-01	3.836E-01	3.889E-01	3.946E-01
1.01E 04--5.83E 04	2.108E 01	2.109E 01	2.115E 01	2.125E 01	2.139E 01	2.157E 01	2.179E 01	2.203E 01	2.230E 01
2.90E 05--1.01E 04	8.812E 01	8.817E 01	8.875E 01	8.975E 01	9.127E 01	9.344E 01	9.673E 01	1.012E 01	1.062E 01
1.07E 05--2.90E 05	2.508E 02	2.509E 02	2.515E 02	2.525E 02	2.539E 02	2.556E 02	2.577E 02	2.601E 02	2.626E 02
3.06E 06--1.07E 05	6.534E 02	6.537E 02	6.550E 02	6.573E 02	6.607E 02	6.649E 02	6.699E 02	6.755E 02	6.816E 02
1.12E 06--3.06E 06	1.714E 03	1.715E 03	1.718E 03	1.724E 03	1.732E 03	1.742E 03	1.755E 03	1.768E 03	1.783E 03
4.14E 07--1.12E 06	3.683E 03	3.684E 03	3.691E 03	3.703E 03	3.719E 03	3.740E 03	3.765E 03	3.792E 03	3.822E 03
0.0	5.256E 03	5.258E 03	5.267E 03	5.284E 03	5.306E 03	5.333E 03	5.364E 03	5.398E 03	5.434E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08556	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	7.950E-03	9.619E-03	1.611E-02	2.082E-02	3.965E-02	7.394E-02	2.281E-01	1.733E 00	5.307E-01
1.11E 00--1.83E 00	5.935E-02	5.190E-02	7.600E-02	8.940E-02	1.335E-01	1.789E-01	3.477E-01	1.617E 00	1.129E 00
5.50E 01--1.11E 00	7.216E-02	1.081E-01	9.511E-02	1.388E-01	1.452E-01	2.016E-01	2.512E-01	3.723E-01	1.269E 00
1.11E 01--5.50E 01	1.031E-01	1.085E-01	1.156E-01	1.245E-01	1.326E-01	1.437E-01	1.541E-01	1.651E-01	1.321E 00
3.35E 02--1.11E 01	5.091E-01	5.216E-01	5.345E-01	5.477E-01	5.599E-01	5.711E-01	5.799E-01	5.855E-01	6.381E 00
5.83E 04--3.35E 02	4.008E-01	4.072E-01	4.135E-01	4.196E-01	4.251E-01	4.298E-01	4.333E-01	4.353E-01	5.016E 00
1.01E 04--5.83E 04	2.258E 01	2.287E 01	2.315E 01	2.342E 01	2.366E 01	2.385E 01	2.400E 01	2.408E 01	2.826E 02
2.90E 05--1.01E 04	9.362E 01	9.465E 01	9.565E 01	9.661E 01	9.744E 01	9.812E 01	9.862E 01	9.891E 01	1.172E 03
1.07E 05--2.90E 05	2.653E 02	2.680E 02	2.706E 02	2.731E 02	2.752E 02	2.770E 02	2.783E 02	2.790E 02	3.321E 03
3.06E 06--1.07E 05	6.879E 02	6.943E 02	7.004E 02	7.061E 02	7.111E 02	7.152E 02	7.182E 02	7.199E 02	8.613E 03
1.12E 06--3.06E 06	1.799E 03	1.814E 03	1.829E 03	1.843E 03	1.855E 03	1.865E 03	1.872E 03	1.876E 03	2.252E 04
4.14E 07--1.12E 06	3.853E 03	3.884E 03	3.914E 03	3.941E 03	3.965E 03	3.985E 03	3.999E 03	4.007E 03	4.826E 04
0.0	5.472E 03	5.511E 03	5.549E 03	5.584E 03	5.614E 03	5.637E 03	5.653E 03	5.661E 03	6.857E 04



## 1.108 TO 2.35 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 200.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0000	ANGLE 3 MU=0.0000	ANGLE 4 MU=0.0000	ANGLE 5 MU=0.0000	ANGLE 6 MU=0.0000	ANGLE 7 MU=0.0000	ANGLE 8 MU=0.0000	ANGLE 9 MU=0.0000
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	5.724E-04	5.843E-04	7.638E-04	9.955E-04	1.388E-03	2.011E-03	2.960E-03	4.372E-03	6.732E-03
1.11E 00--1.83E 00	2.511E-02	2.520E-02	2.558E-02	2.637E-02	2.762E-02	3.208E-02	3.566E-02	4.054E-02	4.647E-02
5.50E-01--1.11E 00	6.384E-02	6.399E-02	6.461E-02	6.586E-02	6.781E-02	7.445E-02	7.961E-02	8.647E-02	9.447E-02
1.11E-01--5.50E-01	1.031E-01	1.031E-01	1.040E-01	1.058E-01	1.083E-01	1.118E-01	1.161E-01	1.215E-01	1.279E-01
3.35E-02--1.11E-01	6.499E-01	6.507E-01	6.539E-01	6.599E-01	6.684E-01	6.795E-01	6.930E-01	7.088E-01	7.267E-01
5.83E-04--3.35E-02	5.499E-01	5.504E-01	5.524E-01	5.561E-01	5.613E-01	5.681E-01	5.761E-01	5.854E-01	5.958E-01
1.01E-04--5.83E-04	3.214E 01	3.216E 01	3.226E 01	3.245E 01	3.271E 01	3.305E 01	3.345E 01	3.391E 01	3.441E 01
2.90E-05--1.01E-04	1.361E 02	1.362E 02	1.366E 02	1.373E 02	1.383E 02	1.396E 02	1.411E 02	1.428E 02	1.447E 02
1.07E-05--2.90E-05	3.907E 02	3.909E 02	3.939E 02	3.966E 02	4.000E 02	4.041E 02	4.088E 02	4.138E 02	4.191E 02
3.06E-06--1.07E-05	1.027E 03	1.027E 03	1.030E 03	1.035E 03	1.041E 03	1.050E 03	1.060E 03	1.071E 03	1.083E 03
1.12E-06--3.06E-06	2.710E 03	2.712E 03	2.718E 03	2.730E 03	2.746E 03	2.767E 03	2.792E 03	2.820E 03	2.850E 03
4.14E-07--1.12E-06	5.853E 03	5.856E 03	5.869E 03	5.893E 03	5.927E 03	5.969E 03	6.019E 03	6.076E 03	6.137E 03
0.0 --4.14E-07	8.399E 03	8.403E 03	8.422E 03	8.455E 03	8.500E 03	8.555E 03	8.618E 03	8.688E 03	8.763E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0550	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	5.704E-03	1.032E-02	1.408E-02	2.309E-02	3.659E-02	6.429E-02	1.679E-01	1.339E 00	4.302E-01
1.11E 00--1.83E 00	4.130E-02	6.167E-02	6.593E-02	9.381E-02	1.188E-01	1.778E-01	2.955E-01	1.191E 00	9.990E-01
5.50E-01--1.11E 00	1.032E-01	1.010E-01	1.289E-01	1.398E-01	1.778E-01	2.130E-01	2.861E-01	4.071E-01	1.424E 00
3.35E-02--5.50E-01	1.350E-01	1.445E-01	1.658E-01	1.658E-01	1.780E-01	1.920E-01	2.062E-01	2.200E-01	1.745E 00
5.83E-04--3.35E-02	6.068E-01	7.464E-01	7.893E-01	8.112E-01	8.319E-01	8.504E-01	8.651E-01	8.744E-01	9.356E 00
2.90E-05--5.83E-04	3.495E 01	3.550E 01	3.605E 01	3.656E 01	3.702E 01	3.741E 01	3.770E 01	3.786E 01	7.592E 00
1.07E-05--2.90E-05	1.467E 02	1.487E 02	1.507E 02	1.526E 02	1.543E 02	1.557E 02	1.567E 02	1.573E 02	1.835E 03
3.06E-06--1.07E-05	4.192E 02	4.246E 02	4.299E 02	4.349E 02	4.393E 02	4.429E 02	4.455E 02	4.471E 02	5.244E 03
1.12E-06--3.06E-06	1.094E 03	1.109E 03	1.122E 03	1.133E 03	1.144E 03	1.152E 03	1.159E 03	1.162E 03	1.371E 04
4.14E-07--1.12E-06	2.881E 03	2.913E 03	2.944E 03	2.973E 03	2.998E 03	3.019E 03	3.034E 03	3.043E 03	3.606E 04
0.0 --4.14E-07	6.201E 03	6.266E 03	6.329E 03	6.387E 03	6.438E 03	6.480E 03	6.510E 03	6.527E 03	7.762E 04
	8.843E 03	8.925E 03	9.005E 03	9.080E 03	9.144E 03	9.194E 03	9.228E 03	9.246E 03	1.108E 05

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83F 00---2.35E 00	5.111E-04	5.222E-04	5.724E-04	6.948E-04	8.855E-04	1.217E-03	1.755E-03	2.516E-03	3.673E-03
1.11F 00---1.83E 00	1.953E-02	1.961E-02	1.993E-02	2.060E-02	2.164E-02	2.317E-02	2.51E-02	2.824E-02	3.225E-02
5.50E-01---1.11E 00	5.968E-02	5.985E-02	6.055E-02	6.196E-02	6.411E-02	6.717E-02	7.135E-02	7.694E-02	8.430E-02
1.11E-01---5.50E-01	1.244E-01	1.247E-01	1.260E-01	1.283E-01	1.318E-01	1.364E-01	1.423E-01	1.495E-01	1.581E-01
3.35E-02---1.11E-01	9.230E-01	9.243E-01	9.297E-01	9.397E-01	9.539E-01	9.725E-01	9.952E-01	1.022E 00	1.052E 00
5.83E-04---3.35E-02	8.227E-01	8.235E-01	8.272E-01	8.340E-01	8.435E-01	8.558E-01	8.706E-01	8.879E-01	9.070E-01
1.01E-04---5.83E-04	4.993E 01	4.997E 01	5.017E 01	5.054E 01	5.105E 01	5.171E 01	5.251E 01	5.342E 01	5.444E 01
2.90E-05---1.01E-04	2.164E 02	2.165E 02	2.173E 02	2.188E 02	2.208E 02	2.235E 02	2.266E 02	2.302E 02	2.342E 02
1.07E-05---2.90E-05	6.319E 02	6.319E 02	6.341E 02	6.382E 02	6.439E 02	6.512E 02	6.600E 02	6.700E 02	6.810E 02
3.06E-06---1.07E-05	1.689E 03	1.690E 03	1.696E 03	1.706E 03	1.720E 03	1.739E 03	1.761E 03	1.786E 03	1.814E 03
1.12E-06---3.06E-06	4.514E 03	4.518E 03	4.532E 03	4.558E 03	4.595E 03	4.642E 03	4.698E 03	4.761E 03	4.831E 03
4.14E-07---1.12E-06	9.856E 03	9.863E 03	9.895E 03	9.947E 03	1.002E 04	1.012E 04	1.024E 04	1.037E 04	1.051E 04
0.0 ---4.14E-07	1.431E 04	1.432E 04	1.436E 04	1.444E 04	1.454E 04	1.467E 04	1.481E 04	1.498E 04	1.516E 04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.00950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08556	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	5.590E-03	7.807E-03	1.212E-02	1.833E-02	2.955E-02	5.004E-02	1.060E-01	7.492E-01	2.797E-01
1.11E 00---1.83E 00	3.945E-02	4.391E-02	5.711E-02	7.068E-02	9.615E-02	1.337E-01	2.109E-01	6.273E-01	7.290E-01
5.50E-01---1.11E 00	9.168E-02	1.084E-01	1.218E-01	1.464E-01	1.734E-01	2.153E-01	2.743E-01	3.821E-01	1.386E 00
1.11E-01---5.50E-01	1.685E-01	1.801E-01	1.938E-01	2.088E-01	2.254E-01	2.426E-01	2.598E-01	2.745E-01	2.169E 00
3.35E-02---1.11E-01	1.086E 00	1.122E 00	1.159E 00	1.196E 00	1.232E 00	1.263E 00	1.288E 00	1.302E 00	1.361E 01
5.83E-04---3.35E-02	9.278E-01	9.494E-01	9.712E-01	9.923E-01	1.012E 00	1.028E 00	1.040E 00	1.048E 00	1.160E 01
1.01E-04---5.83E-04	5.552E 01	5.664F 01	5.776E 01	5.883E 01	5.980E 01	6.061E 01	6.121E 01	6.156E 01	6.941E 02
2.90E-05---1.01E-04	2.384E 02	2.428E 02	2.471E 02	2.512E 02	2.549E 02	2.579E 02	2.602E 02	2.615E 02	2.981E 03
1.07E-05---2.90E-05	6.927E 02	7.047E 02	7.166E 02	7.278E 02	7.378E 02	7.461E 02	7.523E 02	7.558E 02	8.660E 03
3.06E-06---1.07E-05	1.843E 03	1.872E 03	1.902E 03	1.929E 03	1.954E 03	1.974E 03	1.989E 03	1.998E 03	2.304E 04
1.12E-06---3.06E-06	4.904E 03	4.979E 03	5.052E 03	5.121E 03	5.183F 03	5.233E 03	5.270E 03	5.291E 03	6.132E 04
4.14E-07---1.12E-06	1.067E 04	1.082E 04	1.097E 04	1.111E 04	1.124E 04	1.134E 04	1.142E 04	1.146E 04	1.334E 05
0.0 ---4.14E-07	1.536E 04	1.555E 04	1.575E 04	1.593E 04	1.609E 04	1.622E 04	1.631E 04	1.636E 04	1.922E 05

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	3.899E-04	3.987E-04	4.382E-04	5.245E-04	6.753E-04	9.208E-04	1.300E-03	1.869E-03	2.709E-03
1.11E 00--1.83E 00	1.360E-02	1.365E-02	1.390E-02	1.438E-02	1.513E-02	1.624E-02	1.778E-02	1.988E-02	2.774E-02
5.50E 01--1.11E 00	4.788E-02	4.803E-02	4.867E-02	4.993E-02	5.183E-02	5.455E-02	5.825E-02	6.318E-02	6.966E-02
1.11E 01--5.50E 01	1.194E-01	1.197E-01	1.213E-01	1.234E-01	1.269E-01	1.316E-01	1.376E-01	1.450E-01	1.540E-01
3.35E 02--1.11E 01	9.964E-01	9.979E-01	1.004E 00	1.016E 00	1.033E 00	1.055E 00	1.082E 00	1.114E 00	1.151E 00
5.83E 04--3.35E 02	9.221E-01	9.232E-01	9.278E-01	9.363E-01	9.482E-01	9.638E-01	9.825E-01	1.004E 00	1.029E 00
1.01E 04--5.83E 04	5.763E 01	5.769E 01	5.796E 01	5.844E 01	5.912E 01	6.000E 01	6.105E 01	6.227E 01	6.363E 01
2.90E 05--1.01E 04	2.545E 02	2.548E 02	2.559E 02	2.578E 02	2.606E 02	2.642E 02	2.685E 02	2.735E 02	2.790E 02
1.07E 05--2.90E 05	7.532E 02	7.539E 02	7.570E 02	7.627E 02	7.707E 02	7.810E 02	7.933E 02	8.075E 02	8.231E 02
3.06E 06--1.07E 05	2.047E 03	2.048E 03	2.057E 03	2.071E 03	2.092E 03	2.119E 03	2.150E 03	2.187E 03	2.227E 03
1.12E 06--3.06E 06	5.535E 03	5.540E 03	5.561E 03	5.599E 03	5.653E 03	5.722E 03	5.808E 03	5.898E 03	6.002E 03
4.14E 07--1.12E 06	1.221E 04	1.222E 04	1.227E 04	1.235E 04	1.246E 04	1.261E 04	1.278E 04	1.298E 04	1.320E 04
0.0	1.792E 04	1.794E 04	1.800E 04	1.812E 04	1.827E 04	1.846E 04	1.869E 04	1.894E 04	1.923E 04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	3.930E-03	5.836E-03	8.698E-03	1.336E-02	2.116E-02	3.537E-02	6.976E-02	4.095E-01	1.769E-01
1.11E 00--1.83E 00	2.643E-02	3.219E-02	3.946E-02	5.056E-02	6.651E-02	9.205E-02	1.379E-01	3.307E-01	4.876E-01
5.50E 01--1.11E 00	7.844E-02	8.900E-02	1.038E-01	1.223E-01	1.473E-01	1.801E-01	2.266E-01	3.017E-01	1.150E 00
1.645E 01--5.50E 01	1.768E-01	1.768E-01	1.905E-01	2.061E-01	2.227E-01	2.398E-01	2.558E-01	2.685E-01	2.119E 00
3.35E 02--1.11E 01	1.191E 00	1.235E 00	1.280E 00	1.325E 00	1.367E 00	1.404E 00	1.432E 00	1.451E 00	1.493E 01
5.83E 04--3.35E 02	1.055E 00	1.083E 00	1.111E 00	1.138E 00	1.163E 00	1.184E 00	1.209E 00	1.209E 00	1.319E 01
1.01E 04--5.83E 04	6.509E 01	6.661E 01	6.813E 01	6.958E 01	7.091E 01	7.202E 01	7.285E 01	7.333E 01	8.135E 02
2.90E 05--1.01E 04	2.910E 02	2.910E 02	2.971E 02	3.029E 02	3.081E 02	3.125E 02	3.158E 02	3.177E 02	3.561E 03
1.07E 05--2.90E 05	8.399E 02	8.571E 02	8.743E 02	8.906E 02	9.053E 02	9.175E 02	9.266E 02	9.318E 02	1.050E 04
3.06E 06--1.07E 05	2.270E 03	2.314E 03	2.358E 03	2.399E 03	2.436E 03	2.467E 03	2.490E 03	2.503E 03	2.837E 04
1.12E 06--3.06E 06	6.112E 03	6.225E 03	6.337E 03	6.442E 03	6.537E 03	6.615E 03	6.675E 03	6.706E 03	7.639E 04
4.14E 07--1.12E 06	1.343E 04	1.367E 04	1.390E 04	1.412E 04	1.432E 04	1.448E 04	1.460E 04	1.467E 04	1.579E 05
0.0	1.953E 04	1.984E 04	2.015E 04	2.044E 04	2.069E 04	2.089E 04	2.104E 04	2.112E 04	2.442E 05

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	2.732E-04	2.796E-04	3.078E-04	3.686E-04	4.733E-04	6.421E-04	9.009E-04	1.287E-03	1.857E-03
1.83E 00--2.35E 00	8.936E-03	8.936E-03	9.100E-03	9.426E-03	9.933E-03	1.067E-02	1.170E-02	1.311E-02	1.502E-02
1.11E 00--1.83E 00	3.520E-02	3.532E-02	3.583E-02	3.682E-02	3.832E-02	4.046E-02	4.337E-02	4.724E-02	5.233E-02
5.50E 01--1.11E 00	1.005E-01	1.008E-01	1.013E-01	1.041E-01	1.072E-01	1.113E-01	1.165E-01	1.232E-01	1.311E-01
1.11E 01--5.50E-01	9.198E-01	9.213E-01	9.276E-01	9.393E-01	9.560E-01	9.778E-01	1.009E 00	1.036E 00	1.072E 00
5.93E 04--3.35E-02	8.757E-01	8.768E-01	8.815E-01	8.902E-01	9.025E-01	9.184E-01	9.376E-01	9.601E-01	9.852E-01
1.01E 04--5.83E-04	5.601E 01	5.607E 01	5.635E 01	5.685E 01	5.758E 01	5.851E 01	5.964E 01	6.094E 01	6.239E 01
2.90E 05--1.01E-04	2.511E 02	2.514E 02	2.525E 02	2.547E 02	2.577E 02	2.616E 02	2.666E 02	2.718E 02	2.778E 02
1.07E 05--2.90E-05	7.516E 02	7.524E 02	7.558E 02	7.621E 02	7.709E 02	7.823E 02	7.960E 02	8.118E 02	8.293E 02
3.06E 06--1.07E-05	2.070E 03	2.072E 03	2.081E 03	2.097E 03	2.121E 03	2.151E 03	2.187E 03	2.229E 03	2.275E 03
1.12E 06--3.06E-06	5.653E 03	5.659E 03	5.683E 03	5.727E 03	5.788E 03	5.867E 03	5.962E 03	6.072E 03	6.192E 03
4.14E 07--1.12E-06	1.259E 04	1.260E 04	1.265E 04	1.274E 04	1.288E 04	1.305E 04	1.325E 04	1.348E 04	1.374E 04
0.0	1.866E 04	1.868E 04	1.875E 04	1.888E 04	1.906E 04	1.929E 04	1.956E 04	1.987E 04	2.020E 04
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	2.700E-03	3.964E-03	5.918E-03	9.039E-03	1.427E-02	2.375E-02	4.489E-02	2.226E-01	1.095E-01
1.83E 00--2.35E 00	1.762E-02	2.117E-02	2.615E-02	3.521E-02	4.951E-02	5.921E-02	8.591E-02	1.753E-01	3.111E-01
5.50E 01--1.11E 00	5.896E-02	6.764E-02	7.886E-02	9.346E-02	1.124E-01	1.371E-01	1.701E-01	2.188E-01	8.559E-01
1.11E 01--5.50E-01	1.404E-01	1.512E-01	1.635E-01	1.772E-01	1.917E-01	2.063E-01	2.196E-01	2.295E-01	1.809E 00
3.35E 02--1.11E-01	1.112E 00	1.155E 00	1.200E 00	1.245E 00	1.287E 00	1.324E 00	1.353E 00	1.370E 00	1.394E 01
5.83E 04--3.35E-02	1.013E 00	1.041E 00	1.070E 00	1.098E 00	1.124E 00	1.146E 00	1.165E 00	1.172E 00	1.266E 01
1.01E 04--5.83E-04	6.396E 01	6.559E 01	6.723E 01	6.881E 01	7.024E 01	7.145E 01	7.236E 01	7.288E 01	7.993E 02
2.90E 05--1.01E-04	2.943E 02	2.911E 02	2.978E 02	3.043E 02	3.101E 02	3.150E 02	3.186E 02	3.207E 02	3.553E 03
1.07E 05--2.90E-05	8.481E 02	8.676E 02	8.870E 02	9.055E 02	9.222E 02	9.362E 02	9.466E 02	9.526E 02	1.060E 04
3.06E 06--1.07E-05	2.324E 03	2.375E 03	2.425E 03	2.473E 03	2.517E 03	2.553E 03	2.580E 03	2.595E 03	2.903E 04
1.12E 06--3.06E-06	6.321E 03	6.453E 03	6.585E 03	6.710E 03	6.822E 03	6.915E 03	6.985E 03	7.024E 03	7.897E 04
4.14E 07--1.12E-06	1.402E 04	1.430E 04	1.458E 04	1.485E 04	1.509E 04	1.528E 04	1.543E 04	1.551E 04	1.752E 05
0.0	2.056E 04	2.094E 04	2.131E 04	2.167E 04	2.198E 04	2.223E 04	2.241E 04	2.251E 04	2.571E 05

SCALAR  
FLUXANGLE 17  
MU= 0.9894ANGLE 16  
MU= 0.9446ANGLE 15  
MU= 0.8656ANGLE 14  
MU= 0.7550ANGLE 13  
MU= 0.6179ANGLE 12  
MU= 0.4580ANGLE 11  
MU= 0.2816ANGLE 10  
MU= 0.0950

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/4EV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	1.815E-04	1.858E-04	2.049E-04	2.454E-04	3.145E-04	4.251E-04	5.938E-04	8.451E-04	1.215E-03
1.11E 00--1.83E 00	5.594E-03	5.619E-03	5.725E-03	5.934E-03	6.259E-03	6.731E-03	7.387E-03	8.283E-03	9.497E-03
5.50E 01--1.11E 00	2.444E-02	2.452E-02	2.493E-02	2.562E-02	2.672E-02	2.828E-02	3.040E-02	3.323E-02	3.694E-02
1.11E 01--5.50E 01	7.783E-02	7.804E-02	7.894E-02	8.065E-02	8.312E-02	8.646E-02	9.071E-02	9.597E-02	1.023E-01
3.35E 02--1.11E 01	7.668E-01	7.681E-01	7.736E-01	7.838E-01	7.984E-01	8.175E-01	8.409E-01	8.686E-01	9.003E-01
1.83E 04--3.35E 02	7.462E-01	7.473E-01	7.515E-01	7.593E-01	7.703E-01	7.846E-01	8.019E-01	8.222E-01	8.449E-01
1.01E 04--1.83E 04	4.860E 01	4.866E 01	4.892E 01	4.939E 01	5.006E 01	5.092E 01	5.198E 01	5.316E 01	5.451E 01
2.90E 05--1.01E 04	2.205E 02	2.208E 02	2.219E 02	2.239E 02	2.269E 02	2.305E 02	2.349E 02	2.400E 02	2.457E 02
1.07E 05--2.90E 05	6.622E 02	6.670E 02	6.703E 02	6.762E 02	6.846E 02	6.955E 02	7.086E 02	7.237E 02	7.405E 02
3.06E 06--1.07E 05	1.855E 03	1.857E 03	1.865E 03	1.882E 03	1.904E 03	1.934E 03	1.965E 03	2.009E 03	2.054E 03
1.12E 06--3.06E 06	5.109E 03	5.115E 03	5.138E 03	5.181E 03	5.241E 03	5.319E 03	5.413E 03	5.520E 03	5.639E 03
4.14E 07--1.12E 06	1.145E 04	1.148E 04	1.153E 04	1.162E 04	1.175E 04	1.192E 04	1.212E 04	1.236E 04	1.262E 04
0.0	1.714E 04	1.716E 04	1.723E 04	1.736E 04	1.754E 04	1.777E 04	1.804E 04	1.835E 04	1.869E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	1.761E-03	2.582E-03	3.847E-03	5.861E-03	9.214E-03	1.523E-02	2.813E-02	5.120E-02	6.654E-02
1.11E 00--1.83E 00	1.114E-02	1.340E-02	1.655E-02	2.092E-02	2.744E-02	3.663E-02	5.175E-02	7.352E-02	1.019E-01
5.50E 01--1.11E 00	4.179E-02	4.808E-02	5.628E-02	6.678E-02	8.035E-02	9.776E-02	1.202E-01	1.503E-01	1.812E-01
1.11E 01--5.50E 01	1.098E-01	1.185E-01	1.284E-01	1.393E-01	1.508E-01	1.623E-01	1.725E-01	1.798E-01	1.841E 00
3.35E 02--1.11E 01	9.355E-01	9.733E-01	1.013E 00	1.052E 00	1.089E 00	1.121E 00	1.146E 00	1.161E 00	1.172E 01
5.83E 04--3.35E 02	8.696E-01	8.955E-01	9.215E-01	9.473E-01	9.707E-01	9.906E-01	1.005E 00	1.014E 00	1.087E 01
1.01E 04--5.83E 04	5.597E 01	5.749E 01	5.902E 01	6.050E 01	6.184E 01	6.297E 01	6.382E 01	6.431E 01	6.993E 02
2.90E 05--1.01E 04	2.519E 02	2.583E 02	2.647E 02	2.709E 02	2.764E 02	2.811E 02	2.846E 02	2.866E 02	3.147E 03
1.07E 05--2.90E 05	7.586E 02	7.774E 02	7.961E 02	8.141E 02	8.304E 02	8.440E 02	8.541E 02	8.600E 02	9.477E 03
3.06E 06--1.07E 05	2.102E 03	2.152E 03	2.202E 03	2.250E 03	2.292E 03	2.328E 03	2.355E 03	2.370E 03	2.626E 04
5.767E 03	5.899E 03	5.899E 03	6.030E 03	6.156E 03	6.268E 03	6.362E 03	6.432E 03	6.472E 03	7.204E 04
4.14E 07--1.12E 06	1.289E 04	1.318E 04	1.346E 04	1.373E 04	1.397E 04	1.417E 04	1.432E 04	1.441E 04	1.611E 05
0.0	1.906E 04	1.944E 04	1.982E 04	2.019E 04	2.051E 04	2.077E 04	2.096E 04	2.106E 04	2.383E 05

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 900.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9844	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.15E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.15E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	4.542E-05	4.542E-05	5.021E-05	6.018E-05	7.688E-05	1.032E-04	1.431E-04	2.021E-04	2.888E-04
1.11E 00--1.83E 00	1.211E-03	1.217E-03	1.240E-03	1.287E-03	1.359E-03	1.464E-03	1.609E-03	1.806E-03	2.073E-03
5.50E-01--1.11E 00	6.658E-03	6.685E-03	6.797E-03	7.015E-03	7.344E-03	7.813E-03	8.447E-03	9.293E-03	1.040E-02
1.11E-01--5.50E-01	2.672E-02	2.680E-02	2.713E-02	2.775E-02	2.866E-02	2.988E-02	3.144E-02	3.338E-02	3.572E-02
3.35E-02--1.11E-01	3.082E-01	3.088E-01	3.112E-01	3.157E-01	3.220E-01	3.304E-01	3.407E-01	3.529E-01	3.669E-01
1.01E-04--3.35E-02	3.133E-01	3.138E-01	3.157E-01	3.193E-01	3.244E-01	3.310E-01	3.390E-01	3.484E-01	3.589E-01
1.01E-05--1.01E-04	2.116E 01	2.119E 01	2.132E 01	2.154E 01	2.187E 01	2.228E 01	2.279E 01	2.338E 01	2.404E 01
2.90E-05--1.01E-04	9.838E 01	9.851E 01	9.906E 01	1.001E 02	1.015E 02	1.033E 02	1.056E 02	1.082E 02	1.110E 02
1.07E-05--2.90E-05	3.028E 02	3.032E 02	3.049E 02	3.079E 02	3.123E 02	3.179E 02	3.246E 02	3.324E 02	3.412E 02
3.06E-06--1.07E-05	8.625E 02	8.636E 02	8.682E 02	8.767E 02	8.877E 02	9.042E 02	9.268E 02	9.445E 02	9.686E 02
1.12E-06--3.06E-06	2.418E 03	2.421E 03	2.433E 03	2.456E 03	2.489E 03	2.531E 03	2.582E 03	2.642E 03	2.707E 03
4.14E-07--1.12E-06	5.514E 03	5.521E 03	5.549E 03	5.600E 03	5.673E 03	5.767E 03	5.881E 03	6.012E 03	6.158E 03
0.0	8.392E 03	8.402E 03	8.443E 03	8.517E 03	8.620E 03	8.750E 03	8.904E 03	9.082E 03	9.280E 03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.15E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.15E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	4.168E-04	6.090E-04	9.042E-04	1.371E-03	2.138E-03	3.482E-03	6.160E-03	1.931E-02	1.385E-02
1.11E 00--1.83E 00	2.433E-03	2.922E-03	3.500E-03	4.511E-03	5.784E-03	7.562E-03	1.010E-02	1.463E-02	3.995E-02
5.50E-01--1.11E 00	1.185E-02	1.373E-02	1.616E-02	1.927E-02	2.321E-02	2.809E-02	3.389E-02	4.024E-02	1.734E-01
1.11E-01--5.50E-01	3.849E-02	4.170E-02	4.534E-02	4.933E-02	5.350E-02	5.757E-02	6.107E-02	6.338E-02	4.957E-01
3.35E-02--1.11E-01	3.824E-01	3.991E-01	4.165E-01	4.339E-01	4.503E-01	4.645E-01	4.754E-01	4.819E-01	4.792E 00
5.83E-04--3.35E-02	3.704E-01	3.825E-01	3.948E-01	4.068E-01	4.177E-01	4.270E-01	4.340E-01	4.381E-01	4.629E 00
1.01E-04--5.83E-04	2.475E 01	2.550E 01	2.625E 01	2.698E 01	2.765E 01	2.821E 01	2.863E 01	2.888E 01	3.092E 02
2.90E-05--1.01E-04	1.142E 02	1.174E 02	1.207E 02	1.239E 02	1.267E 02	1.292E 02	1.310E 02	1.320E 02	1.426E 03
1.07E-05--2.90E-05	3.506E 02	3.604E 02	3.703E 02	3.798E 02	3.884E 02	3.957E 02	4.011E 02	4.042E 02	4.379E 03
3.06E-06--1.07E-05	9.947E 02	1.022E 03	1.042E 03	1.075E 03	1.099E 03	1.118E 03	1.133E 03	1.142E 03	1.242E 04
1.12E-06--3.06E-06	2.778E 03	2.851E 03	2.925E 03	2.995E 03	3.059E 03	3.112E 03	3.152E 03	3.175E 03	3.469E 04
4.14E-07--1.12E-06	6.314E 03	6.477E 03	6.640E 03	6.795E 03	6.936E 03	7.053E 03	7.141E 03	7.191E 03	7.866E 04
0.0	9.494E 03	9.717E 03	9.941E 03	1.015E 04	1.034E 04	1.050E 04	1.062E 04	1.068E 04	1.186E 05

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.1000	ANGLE 2 MU=0.5894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8556	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	9.328E-06	9.559E-06	1.058E-05	1.268E-05	1.618E-05	2.165E-05	2.986E-05	4.202E-05	5.986E-05
1.11E 00--1.83E 00	2.341E-04	2.352E-04	2.399E-04	2.493E-04	2.631E-04	2.835E-04	3.116E-04	3.499E-04	4.014E-04
5.50E 01--1.11E 00	1.520E-03	1.526E-03	1.544E-03	1.606E-03	1.685E-03	1.798E-03	1.951E-03	2.154E-03	2.422E-03
1.11E 01--5.50E 01	7.086E-03	7.108E-03	7.199E-03	7.369E-03	7.618E-03	7.955E-03	8.384E-03	8.919E-03	9.565E-03
3.35E 02--1.11E 01	9.049E-02	9.067E-02	9.141E-02	9.277E-02	9.473E-02	9.730E-02	1.005E-01	1.042E-01	1.085E-01
5.83E 04--3.35E 02	9.436E-02	9.451E-02	9.513E-02	9.625E-02	9.786E-02	9.955E-02	1.025E-01	1.055E-01	1.088E-01
1.01E 04--5.83E 04	6.513E 00	6.522E 00	6.562E 00	6.636E 00	6.740E 00	6.876E 00	7.040E 00	7.232E 00	7.447E 00
2.90E 05--1.01E 04	3.070E 01	3.075E 01	3.093E 01	3.126E 01	3.173E 01	3.234E 01	3.308E 01	3.394E 01	3.490E 01
1.07E 05--2.90E 05	9.566E 01	9.569E 01	9.625E 01	9.727E 01	9.872E 01	1.006E 02	1.029E 02	1.055E 02	1.084E 02
3.63E 06--1.07E 05	2.758E 02	2.762E 02	2.778E 02	2.807E 02	2.848E 02	2.901E 02	2.964E 02	3.039E 02	3.121E 02
1.12E 06--3.63E 06	7.813E 02	7.823E 02	7.867E 02	7.947E 02	8.060E 02	8.206E 02	8.383E 02	8.588E 02	8.816E 02
4.14E 07--1.12E 06	1.799E 03	1.802E 03	1.812E 03	1.830E 03	1.855E 03	1.888E 03	1.928E 03	1.974E 03	2.025E 03
0.0	2.768E 03	2.772E 03	2.786E 03	2.812E 03	2.849E 03	2.895E 03	2.949E 03	3.013E 03	3.084E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	8.622E-05	1.258E-04	1.864E-04	2.818E-04	4.371E-04	7.036E-04	1.212E-03	3.098E-03	2.673E-03
1.11E 00--1.83E 00	4.707E-04	5.642E-04	6.907E-04	8.622E-04	1.093E-03	1.402E-03	1.805E-03	2.346E-03	7.518E-03
5.50E 01--1.11E 00	2.771E-03	3.223E-03	3.806E-03	4.550E-03	5.482E-03	6.512E-03	7.890E-03	9.120E-03	4.047E-02
1.11E 01--5.50E 01	1.033E-02	1.122E-02	1.222E-02	1.332E-02	1.446E-02	1.566E-02	1.650E-02	1.710E-02	1.331E-01
3.35E 02--1.11E 01	1.133E-01	1.185E-01	1.239E-01	1.293E-01	1.343E-01	1.387E-01	1.421E-01	1.441E-01	1.420E 00
5.83E 04--3.35E 02	1.125E-01	1.163E-01	1.202E-01	1.245E-01	1.275E-01	1.305E-01	1.327E-01	1.340E-01	1.405E 00
1.01E 04--5.83E 04	7.680E 00	7.925E 00	8.172E 00	8.412E 00	8.630E 00	8.814E 00	8.952E 00	9.032E 00	9.593E 00
2.90E 05--1.01E 04	3.594E 01	3.703E 01	3.812E 01	3.918E 01	4.014E 01	4.095E 01	4.155E 01	4.190E 01	4.489E 02
1.07E 05--2.90E 05	1.116E 02	1.150E 02	1.183E 02	1.215E 02	1.245E 02	1.269E 02	1.288E 02	1.298E 02	1.394E 03
3.06E 06--1.07E 05	3.211E 02	3.304E 02	3.398E 02	3.488E 02	3.570E 02	3.639E 02	3.690E 02	3.720E 02	4.010E 03
1.12E 06--3.06E 06	9.063E 02	9.319E 02	9.577E 02	9.824E 02	1.005E 03	1.024E 03	1.038E 03	1.046E 03	1.132E 04
4.14E 07--1.12E 06	2.081E 03	2.138E 03	2.176E 03	2.251E 03	2.302E 03	2.344E 03	2.375E 03	2.393E 03	2.598E 04
0.0	3.160E 03	3.240E 03	3.321E 03	3.398E 03	3.467E 03	3.524E 03	3.565E 03	3.589E 03	3.949E 04

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6175	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.12E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.12E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	1.811E-06	1.856E-06	2.056E-06	2.465E-06	3.140E-06	4.193E-06	5.769E-06	8.098E-06	1.151E-05
1.11E 00---1.83E 00	4.266E-05	4.286E-05	4.372E-05	4.539E-05	4.796E-05	5.167E-05	5.678E-05	6.373E-05	7.306E-05
5.9E 01---1.11E 00	3.140E-04	3.154E-04	3.212E-04	3.324E-04	3.493E-04	3.734E-04	4.060E-04	4.496E-04	5.067E-04
1.11E 01---5.9E 01	1.627E-03	1.633E-03	1.654E-03	1.694E-03	1.752E-03	1.831E-03	1.932E-03	2.058E-03	2.210E-03
3.35E 02---1.11E 01	2.228E-02	2.233E-02	2.251E-02	2.286E-02	2.335E-02	2.403E-02	2.481E-02	2.576E-02	2.685E-02
5.83E 04---3.35E 02	2.362E-02	2.366E-02	2.382E-02	2.411E-02	2.452E-02	2.503E-02	2.571E-02	2.648E-02	2.735E-02
1.01E 04---5.83E 04	1.653E 00	1.655E 00	1.666E 00	1.685E 00	1.712E 00	1.748E 00	1.791E 00	1.841E 00	1.898E 00
2.90E 05---1.01E 04	7.863E 00	7.875E 00	7.923E 00	8.010E 00	8.135E 00	8.297E 00	8.492E 00	8.721E 00	8.975E 00
1.07E 05---2.90E 05	2.464E 01	2.468E 01	2.483E 01	2.510E 01	2.549E 01	2.599E 01	2.659E 01	2.730E 01	2.809E 01
3.06E 06---1.07E 05	7.175E 01	7.185E 01	7.228E 01	7.305E 01	7.416E 01	7.558E 01	7.731E 01	7.932E 01	8.156E 01
1.12E 06---3.06E 06	2.046E 02	2.048E 02	2.060E 02	2.082E 02	2.113E 02	2.153E 02	2.201E 02	2.257E 02	2.319E 02
4.14E 07---1.12E 06	4.741E 02	4.747E 02	4.774E 02	4.823E 02	4.893E 02	4.984E 02	5.093E 02	5.220E 02	5.361E 02
0.0 ---4.14E-07	7.343E 02	7.352E 02	7.393E 02	7.464E 02	7.564E 02	7.592E 02	7.843E 02	8.019E 02	8.215E 02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.12E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.12E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	1.656E-05	2.413E-05	3.572E-05	5.391E-05	8.327E-05	1.323E-04	2.241E-04	4.982E-04	4.915E-04
1.11E 00---1.83E 00	8.558E-05	1.024E-04	1.249E-04	1.551E-04	1.950E-04	2.465E-04	3.096E-04	3.797E-04	1.342E-03
5.9E 01---1.11E 00	5.813E-03	6.780E-04	8.024E-04	9.506E-04	1.157E-03	1.392E-03	1.649E-03	1.877E-03	2.483E-03
1.11E 01---5.9E 01	2.391E-03	2.500E-03	2.837E-03	3.095E-03	3.362E-03	3.618E-03	3.832E-03	3.969E-03	3.080E-02
3.35E 02---1.11E 01	2.807E-02	2.928E-02	3.075E-02	3.212E-02	3.340E-02	3.451E-02	3.536E-02	3.587E-02	3.518E-01
5.83E 04---3.35E 02	2.829E-02	2.828E-02	2.829E-02	3.128E-02	3.218E-02	3.294E-02	3.352E-02	3.385E-02	3.534E-01
1.01E 04---5.83E 04	1.959E 00	2.023E 00	2.089E 00	2.151E 00	2.209E 00	2.257E 00	2.294E 00	2.315E 00	2.447E 01
2.90E 05---1.01E 04	9.252E 00	9.541E 00	9.832E 00	1.011E 01	1.037E 01	1.058E 01	1.074E 01	1.084E 01	1.155E 02
1.07E 05---2.90E 05	2.894E 01	2.984E 01	3.074E 01	3.160E 01	3.239E 01	3.305E 01	3.355E 01	3.384E 01	3.614E 02
3.06E 06---1.07E 05	8.399E 01	8.652E 01	8.906E 01	9.151E 01	9.374E 01	9.561E 01	9.700E 01	9.781E 01	1.049E 03
1.12E 06---3.06E 06	2.386E 02	2.456E 02	2.527E 02	2.595E 02	2.656E 02	2.708E 02	2.746E 02	2.769E 02	2.980E 03
4.14E 07---1.12E 06	5.514E 02	5.672E 02	5.832E 02	5.985E 02	6.124E 02	6.240E 02	6.327E 02	6.377E 02	6.885E 03
0.0 ---4.14E-07	8.428E 02	8.651E 02	8.875E 02	9.089E 02	9.281E 02	9.441E 02	9.557E 02	9.624E 02	1.053E 04



## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2016	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	3.343E-07	3.427E-07	3.808E-07	4.554E-07	5.797E-07	7.730E-07	1.062E-06	1.488E-06	2.113E-06
1.11E 00--1.83E 00	7.502E-06	7.537E-06	7.690E-06	7.983E-06	8.434E-06	9.085E-06	9.981E-06	1.120E-05	1.283E-05
5.50E-01--1.11E 00	6.087E-05	6.114E-05	6.230E-05	6.451E-05	6.787E-05	7.265E-05	7.911E-05	8.775E-05	9.908E-05
1.11E-01--5.50E-01	3.411E-04	3.421E-04	3.467E-04	3.552E-04	3.676E-04	3.845E-04	4.060E-04	4.328E-04	4.652E-04
3.35E-02--1.11E-01	4.908E-03	4.918E-03	4.961E-03	5.038E-03	5.149E-03	5.295E-03	5.475E-03	5.689E-03	5.934E-03
5.83E-04--3.35E-02	5.262E-03	5.271E-03	5.307E-03	5.372E-03	5.466E-03	5.589E-03	5.737E-03	5.912E-03	6.108E-03
1.01E-04--5.83E-04	3.717E-01	3.722E-01	3.747E-01	3.791E-01	3.853E-01	3.935E-01	4.034E-01	4.149E-01	4.279E-01
2.90E-05--1.01E-04	1.779E 00	1.782E 00	1.793E 00	1.813E 00	1.842E 00	1.879E 00	1.925E 00	1.977E 00	2.036E 00
1.07E-05--2.90E-05	5.602E 00	5.610E 00	5.645E 00	5.708E 00	5.798E 00	5.914E 00	6.055E 00	6.219E 00	6.403E 00
3.04E-06--1.07E-05	1.640E 01	1.643E 01	1.653E 01	1.671E 01	1.697E 01	1.730E 01	1.771E 01	1.818E 01	1.870E 01
1.12E-06--3.04E-06	4.698E 01	4.704E 01	4.732E 01	4.783E 01	4.856E 01	4.949E 01	5.062E 01	5.194E 01	5.341E 01
4.14E-07--1.12E-06	1.095E 02	1.095E 02	1.101E 02	1.113E 02	1.129E 02	1.151E 02	1.177E 02	1.207E 02	1.240E 02
0.0	1.701E 02	1.703E 02	1.713E 02	1.730E 02	1.754E 02	1.784E 02	1.820E 02	1.862E 02	1.908E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	3.036E-06	4.421E-06	6.538E-06	9.852E-06	1.517E-05	2.406E-05	3.988E-05	8.015E-05	8.745E-05
1.11E 00--1.83E 00	1.501E-05	1.792E-05	2.181E-05	2.696E-05	3.365E-05	4.209E-05	5.192E-05	6.158E-05	7.222E-05
5.50E-01--1.11E 00	1.139E-04	1.330E-04	1.577E-04	1.889E-04	2.275E-04	2.711E-04	3.218E-04	3.627E-04	4.160E-04
1.11E-01--5.50E-01	5.037E-04	5.484E-04	5.988E-04	6.537E-04	7.103E-04	7.644E-04	8.094E-04	8.378E-04	8.490E-04
3.35E-02--1.11E-01	6.208E-03	6.503E-03	6.811E-03	7.117E-03	7.405E-03	7.655E-03	7.846E-03	7.959E-03	7.995E-03
5.83E-04--3.35E-02	6.322E-03	6.568E-03	6.778E-03	7.001E-03	7.206E-03	7.380E-03	7.511E-03	7.587E-03	7.638E-03
1.01E-04--5.83E-04	4.420E-01	4.568E-01	4.717E-01	4.862E-01	4.994E-01	5.106E-01	5.189E-01	5.238E-01	5.260E 00
2.90E-05--1.01E-04	2.100E 00	2.167E 00	2.235E 00	2.300E 00	2.359E 00	2.409E 00	2.445E 00	2.468E 00	2.472E 01
1.07E-05--2.90E-05	6.602E 00	6.810E 00	7.020E 00	7.221E 00	7.405E 00	7.560E 00	7.673E 00	7.742E 00	7.782E 01
3.04E-06--1.07E-05	1.927E 01	1.986E 01	2.046E 01	2.104E 01	2.156E 01	2.203E 01	2.233E 01	2.252E 01	2.260E 02
1.12E-06--3.04E-06	5.500E 01	5.665E 01	5.832E 01	5.992E 01	6.137E 01	6.259E 01	6.350E 01	6.403E 01	6.426E 02
4.14E-07--1.12E-06	1.276E 02	1.314E 02	1.352E 02	1.388E 02	1.421E 02	1.449E 02	1.469E 02	1.481E 02	1.493E 03
0.0	1.959E 02	2.012E 02	2.066E 02	2.117E 02	2.163E 02	2.201E 02	2.229E 02	2.245E 02	2.248E 03

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	1.762E-06	1.765E-06	1.774E-06	1.792E-06	1.818E-06	1.851E-06	1.892E-06	1.940E-06	1.992E-06
5.00E 00--6.50E 00	3.648E-06	3.650E-06	3.668E-06	3.705E-06	3.758E-06	3.829E-06	3.912E-06	4.008E-06	4.115E-06
3.50E 00--5.00E 00	4.080E-05	4.086E-05	4.106E-05	4.146E-05	4.204E-05	4.279E-05	4.370E-05	4.474E-05	4.590E-05
2.00E 00--3.50E 00	1.144E-05	1.145E-05	1.152E-05	1.164E-05	1.182E-05	1.208E-05	1.235E-05	1.268E-05	1.304E-05
1.50E 00--2.00E 00	2.007E-05	2.010E-05	2.020E-05	2.041E-05	2.071E-05	2.109E-05	2.156E-05	2.210E-05	2.270E-05
1.00E 00--1.50E 00	5.651E-06	5.662E-06	5.707E-06	5.792E-06	5.918E-06	6.082E-06	6.280E-06	6.510E-06	6.765E-06
0.50E 00--1.00E 00	6.358E-06	6.371E-06	6.423E-06	6.516E-06	6.656E-06	6.837E-06	7.057E-06	7.311E-06	7.594E-06
0.20E 00--0.50E 00	7.390E-06	7.405E-06	7.461E-06	7.571E-06	7.730E-06	7.937E-06	8.188E-06	8.476E-06	8.797E-06
0.10E 00--0.20E 00	8.853E-06	8.871E-06	8.937E-06	9.065E-06	9.252E-06	9.494E-06	9.786E-06	1.012E-05	1.049E-05
0.05E 00--0.10E 00	1.151E-05	1.153E-05	1.161E-05	1.177E-05	1.201E-05	1.231E-05	1.267E-05	1.309E-05	1.354E-05
0.02E 00--0.05E 00	1.551E-05	1.554E-05	1.564E-05	1.585E-05	1.615E-05	1.653E-05	1.698E-05	1.750E-05	1.807E-05
0.01E 00--0.02E 00	2.155E-05	2.159E-05	2.164E-05	2.185E-05	2.224E-05	2.271E-05	2.326E-05	2.388E-05	2.456E-05
0.005E 00--0.01E 00	1.591E-04	1.592E-04	1.599E-04	1.610E-04	1.626E-04	1.647E-04	1.672E-04	1.699E-04	1.728E-04
0.002E 00--0.005E 00	9.712E-05	9.720E-05	9.748E-05	9.803E-05	9.881E-05	9.979E-05	1.009E-04	1.022E-04	1.035E-04
0.001E 00--0.002E 00	1.822E-04	1.822E-04	1.827E-04	1.832E-04	1.832E-04	1.839E-04	1.846E-04	1.855E-04	1.864E-04
0.0005E 00--0.001E 00	9.799E-04	9.802E-04	9.814E-04	9.837E-04	9.870E-04	9.912E-04	9.960E-04	1.001E-03	1.007E-03
0.0002E 00--0.0005E 00	2.014E-03	2.014E-03	2.016E-03	2.020E-03	2.024E-03	2.031E-03	2.038E-03	2.046E-03	2.055E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	2.554E-05
6.50E 00--8.00E 00	2.048E-06	2.107E-06	2.164E-06	2.217E-06	2.264E-06	2.307E-06	2.334E-06	2.333E-06	2.554E-05
5.00E 00--6.50E 00	4.230E-06	4.349E-06	4.466E-06	4.574E-06	4.671E-06	4.757E-06	4.813E-06	4.811E-06	5.274E-05
3.50E 00--5.00E 00	4.714E-05	4.842E-05	4.968E-05	5.084E-05	5.188E-05	5.281E-05	5.341E-05	5.340E-05	5.878E-04
2.00E 00--3.50E 00	1.344E-05	1.385E-05	1.425E-05	1.462E-05	1.495E-05	1.525E-05	1.545E-05	1.543E-05	1.675E-04
1.50E 00--2.00E 00	2.334E-05	2.400E-05	2.466E-05	2.525E-05	2.580E-05	2.628E-05	2.658E-05	2.658E-05	2.910E-04
1.00E 00--1.50E 00	7.041E-06	7.328E-06	7.610E-06	7.871E-06	8.109E-06	8.318E-06	8.450E-06	8.439E-06	8.755E-05
0.50E 00--1.00E 00	7.897E-06	8.213E-06	8.524E-06	8.810E-06	9.069E-06	9.297E-06	9.442E-06	9.439E-06	9.819E-05
0.20E 00--0.50E 00	9.140E-06	9.497E-06	9.847E-06	1.017E-05	1.046E-05	1.071E-05	1.087E-05	1.087E-05	1.136E-04
0.10E 00--0.20E 00	1.089E-05	1.130E-05	1.170E-05	1.207E-05	1.240E-05	1.269E-05	1.287E-05	1.288E-05	1.354E-04
0.05E 00--0.10E 00	1.403E-05	1.453E-05	1.501E-05	1.545E-05	1.585E-05	1.619E-05	1.641E-05	1.642E-05	1.743E-04
0.02E 00--0.05E 00	1.867E-05	1.928E-05	1.987E-05	2.040E-05	2.087E-05	2.128E-05	2.154E-05	2.155E-05	2.319E-04
0.01E 00--0.02E 00	1.867E-05	1.928E-05	1.987E-05	2.040E-05	2.087E-05	2.128E-05	2.154E-05	2.155E-05	2.319E-04
0.005E 00--0.01E 00	2.605E-05	2.680E-05	2.751E-05	2.815E-05	2.871E-05	2.920E-05	2.950E-05	2.952E-05	2.582E-04
0.002E 00--0.005E 00	1.759E-04	1.789E-04	1.818E-04	1.843E-04	1.866E-04	1.885E-04	1.897E-04	1.897E-04	2.193E-03
0.001E 00--0.002E 00	1.049E-04	1.062E-04	1.075E-04	1.086E-04	1.096E-04	1.104E-04	1.109E-04	1.110E-04	1.310E-03
0.0005E 00--0.001E 00	1.874E-04	1.884E-04	1.894E-04	1.902E-04	1.910E-04	1.916E-04	1.920E-04	1.920E-04	2.350E-03
0.0002E 00--0.0005E 00	1.013E-03	1.019E-03	1.025E-03	1.030E-03	1.034E-03	1.038E-03	1.041E-03	1.041E-03	1.270E-02
0.0001E 00--0.0002E 00	2.064E-03	2.073E-03	2.081E-03	2.088E-03	2.095E-03	2.100E-03	2.104E-03	2.105E-03	2.588E-02

## 1.108 TO 2.35 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*2 FLUENCE AT 150.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=0.0000	MU=0.0984	MU=0.0946	MU=0.0856	MU=0.0750	MU=0.06179	MU=0.04580	MU=0.02816	MU=0.00950
6.50E 00--8.00E 00	5.718E-06	5.722E-06	5.786E-06	5.892E-06	6.049E-06	6.256E-06	6.513E-06	6.821E-06	7.177E-06
5.00E 00--6.50E 00	1.184E-05	1.187E-05	1.198E-05	1.220E-05	1.252E-05	1.294E-05	1.347E-05	1.410E-05	1.483E-05
4.00E 00--5.00E 00	1.330E-04	1.333E-04	1.345E-04	1.369E-04	1.403E-04	1.449E-04	1.507E-04	1.575E-04	1.653E-04
3.00E 00--4.00E 00	3.683E-05	3.693E-05	3.731E-05	3.805E-05	3.914E-05	4.059E-05	4.239E-05	4.454E-05	4.703E-05
2.50E 00--3.00E 00	6.511E-05	6.527E-05	6.593E-05	6.712E-05	6.892E-05	7.129E-05	7.423E-05	7.777E-05	8.183E-05
2.00E 00--2.50E 00	1.745E-05	1.751E-05	1.777E-05	1.827E-05	1.902E-05	2.001E-05	2.125E-05	2.275E-05	2.451E-05
1.66E 00--2.00E 00	1.969E-05	1.977E-05	2.005E-05	2.062E-05	2.145E-05	2.255E-05	2.394E-05	2.561E-05	2.755E-05
1.33E 00--1.66E 00	2.298E-05	2.307E-05	2.340E-05	2.404E-05	2.500E-05	2.627E-05	2.786E-05	2.977E-05	3.199E-05
1.00E 00--1.33E 00	2.766E-05	2.776E-05	2.816E-05	2.893E-05	3.006E-05	3.156E-05	3.344E-05	3.568E-05	3.828E-05
8.00E 01--1.00E 00	3.623E-05	3.636E-05	3.677E-05	3.786E-05	3.931E-05	4.123E-05	4.360E-05	4.641E-05	4.964E-05
6.00E 01--8.00E 01	4.937E-05	4.954E-05	5.021E-05	5.152E-05	5.343E-05	5.592E-05	5.898E-05	6.257E-05	6.663E-05
4.00E 01--6.00E 01	7.136E-05	7.159E-05	7.231E-05	7.428E-05	7.684E-05	8.016E-05	8.418E-05	8.882E-05	9.397E-05
3.00E 01--4.00E 01	2.734E-04	2.740E-04	2.763E-04	2.809E-04	2.858E-04	2.930E-04	3.017E-04	3.115E-04	3.222E-04
2.00E 01--3.00E 01	3.420E-04	3.426E-04	3.447E-04	3.489E-04	3.547E-04	3.619E-04	3.703E-04	3.795E-04	3.893E-04
1.00E 01--2.00E 01	6.740E-04	6.743E-04	6.754E-04	6.776E-04	6.808E-04	6.850E-04	6.901E-04	6.960E-04	7.027E-04
5.00E 02--1.00E 01	1.811E-03	1.812E-03	1.817E-03	1.825E-03	1.836E-03	1.851E-03	1.868E-03	1.888E-03	1.909E-03
2.00E 02--5.00E 02	4.524E-03	4.526E-03	4.534E-03	4.549E-03	4.570E-03	4.597E-03	4.629E-03	4.665E-03	4.704E-03
	1.242E-03	1.242E-03	1.243E-03	1.245E-03	1.247E-03	1.250E-03	1.254E-03	1.258E-03	1.263E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8456	MU=0.9446	MU=0.9894	
6.50E 00--8.00E 00	7.577E-06	8.008E-06	8.460E-06	8.913E-06	9.333E-06	9.705E-06	9.976E-06	1.012E-05	9.499E-05
5.00E 00--6.50E 00	1.564E-05	1.652E-05	1.745E-05	1.837E-05	1.923E-05	1.998E-05	2.053E-05	2.085E-05	1.961E-04
4.00E 00--5.00E 00	1.741E-04	1.836E-04	1.935E-04	2.034E-04	2.126E-04	2.206E-04	2.285E-04	2.297E-04	2.182E-03
3.00E 00--4.00E 00	4.984E-05	5.287E-05	5.606E-05	5.927E-05	6.225E-05	6.486E-05	6.678E-05	6.780E-05	6.251E-04
2.50E 00--3.00E 00	8.640E-05	9.130E-05	9.645E-05	1.015E-04	1.064E-04	1.105E-04	1.136E-04	1.152E-04	1.083E-03
2.00E 00--2.50E 00	2.650E-05	2.847E-05	3.096E-05	3.328E-05	3.544E-05	3.733E-05	3.871E-05	3.945E-05	3.330E-04
1.66E 00--2.00E 00	2.976E-05	3.215E-05	3.467E-05	3.720E-05	3.955E-05	4.160E-05	4.309E-05	4.390E-05	3.735E-04
1.33E 00--1.66E 00	3.450E-05	3.720E-05	4.003E-05	4.286E-05	4.546E-05	4.772E-05	4.937E-05	5.026E-05	4.322E-04
1.00E 00--1.33E 00	4.119E-05	4.431E-05	4.755E-05	5.076E-05	5.369E-05	5.622E-05	5.806E-05	5.906E-05	5.149E-04
8.00E 01--1.00E 00	5.323E-05	5.701E-05	6.090E-05	6.471E-05	6.814E-05	7.108E-05	7.320E-05	7.434E-05	6.630E-04
6.00E 01--8.00E 01	7.107E-05	7.569E-05	8.037E-05	8.487E-05	8.88E-05	9.226E-05	9.468E-05	9.595E-05	8.819E-04
4.00E 01--6.00E 01	1.052E-04	1.052E-04	1.07E-04	1.160E-04	1.207E-04	1.245E-04	1.273E-04	1.287E-04	1.230E-03
3.00E 01--4.00E 01	3.334E-04	3.447E-04	3.557E-04	3.660E-04	3.750E-04	3.824E-04	3.876E-04	3.903E-04	4.138E-03
2.00E 01--3.00E 01	4.093E-04	4.093E-04	4.189E-04	4.277E-04	4.353E-04	4.415E-04	4.459E-04	4.482E-04	4.960E-03
1.00E 01--2.00E 01	7.100E-04	7.175E-04	7.251E-04	7.324E-04	7.388E-04	7.442E-04	7.481E-04	7.501E-04	8.901E-03
5.00E 02--1.00E 01	1.932E-03	1.955E-03	1.976E-03	1.997E-03	2.015E-03	2.030E-03	2.040E-03	2.046E-03	2.417E-02
2.00E 02--5.00E 02	4.744E-03	4.784E-03	4.824E-03	4.859E-03	4.890E-03	4.915E-03	4.933E-03	4.943E-03	5.941E-02
	1.268E-03	1.272E-03	1.277E-03	1.281E-03	1.284E-03	1.287E-03	1.289E-03	1.290E-03	1.590E-02

## 1.108 TO 2.35 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*\*2 FLUENCE AT 200.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	8.652E-06	8.678E-06	8.781E-06	8.982E-06	9.281E-06	9.580E-06	1.019E-05	1.080E-05	1.154E-05
5.00E 00--6.50E 00	1.792E-05	1.798E-05	1.819E-05	1.860E-05	1.921E-05	2.003E-05	2.107E-05	2.233E-05	2.383E-05
4.00E 00--5.00E 00	2.017E-04	2.022E-04	2.045E-04	2.090E-04	2.157E-04	2.246E-04	2.358E-04	2.495E-04	2.656E-04
3.00E 00--4.00E 00	9.849E-05	9.879E-05	9.998E-05	1.020E-04	1.058E-04	1.103E-04	1.161E-04	1.232E-04	1.316E-04
2.50E 00--3.00E 00	2.564E-05	2.577E-05	2.625E-05	2.720E-05	2.862E-05	3.053E-05	3.297E-05	3.600E-05	3.964E-05
2.00E 00--2.50E 00	2.902E-05	2.915E-05	2.969E-05	3.075E-05	3.233E-05	3.446E-05	3.720E-05	4.058E-05	4.444E-05
1.66E 00--2.00E 00	3.394E-05	3.410E-05	3.472E-05	3.594E-05	3.777E-05	4.023E-05	4.339E-05	4.728E-05	5.194E-05
1.33E 00--1.66E 00	4.097E-05	4.115E-05	4.190E-05	4.336E-05	4.555E-05	4.849E-05	5.224E-05	5.685E-05	6.233E-05
1.00E 00--1.33E 00	5.389E-05	5.413E-05	5.511E-05	5.703E-05	5.986E-05	6.366E-05	6.847E-05	7.431E-05	8.119E-05
8.00E 01--1.00E 01	7.388E-05	7.421E-05	7.554E-05	7.813E-05	8.194E-05	8.697E-05	9.327E-05	1.008E-04	1.096E-04
6.00E 01--8.00E 01	1.079E-04	1.083E-04	1.102E-04	1.138E-04	1.191E-04	1.259E-04	1.344E-04	1.443E-04	1.556E-04
4.00E 01--6.00E 01	4.304E-04	4.315E-04	4.359E-04	4.444E-04	4.564E-04	4.718E-04	4.903E-04	5.115E-04	5.347E-04
3.00E 01--4.00E 01	5.472E-04	5.484E-04	5.533E-04	5.626E-04	5.754E-04	5.913E-04	6.097E-04	6.299E-04	6.514E-04
2.00E 01--3.00E 01	1.118E-03	1.118E-03	1.121E-03	1.135E-03	1.161E-03	1.140E-03	1.150E-03	1.163E-03	1.177E-03
1.00E 01--2.00E 01	3.004E-03	3.007E-03	3.016E-03	3.033E-03	3.058E-03	3.089E-03	3.127E-03	3.170E-03	3.216E-03
5.00E 02--1.00E 01	7.577E-03	7.581E-03	7.599E-03	7.632E-03	7.678E-03	7.737E-03	7.806E-03	7.885E-03	7.971E-03
2.00E 02--5.00E 02	2.097E-03	2.097E-03	2.100E-03	2.104E-03	2.109E-03	2.116E-03	2.125E-03	2.134E-03	2.144E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.569E-04
6.50E 00--8.00E 00	1.238E-05	1.333E-05	1.435E-05	1.541E-05	1.644E-05	1.737E-05	1.808E-05	1.849E-05	1.849E-05
5.00E 00--6.50E 00	2.555E-05	2.749E-05	2.957E-05	3.173E-05	3.383E-05	3.570E-05	3.715E-05	3.798E-05	3.798E-05
4.00E 00--5.00E 00	2.842E-04	3.050E-04	3.273E-04	3.504E-04	3.727E-04	3.926E-04	4.080E-04	4.168E-04	4.168E-04
3.00E 00--4.00E 00	8.160E-05	8.829E-05	9.554E-05	1.031E-04	1.104E-04	1.178E-04	1.221E-04	1.250E-04	1.250E-04
2.50E 00--3.00E 00	1.412E-04	1.520E-04	1.637E-04	1.757E-04	1.874E-04	1.978E-04	2.058E-04	2.104E-04	2.104E-04
2.00E 00--2.50E 00	4.391E-05	4.877E-05	5.407E-05	5.982E-05	6.504E-05	6.989E-05	7.382E-05	7.576E-05	7.576E-05
1.66E 00--2.00E 00	4.938E-05	5.475E-05	6.058E-05	6.644E-05	7.251E-05	7.772E-05	8.173E-05	8.401E-05	8.401E-05
1.33E 00--1.66E 00	5.735E-05	6.344E-05	6.999E-05	7.673E-05	8.321E-05	8.892E-05	9.328E-05	9.577E-05	9.577E-05
1.00E 00--1.33E 00	6.863E-05	7.567E-05	8.317E-05	9.080E-05	9.806E-05	1.044E-04	1.092E-04	1.119E-04	1.119E-04
8.00E 01--1.00E 01	8.900E-05	9.757E-05	1.066E-04	1.155E-04	1.239E-04	1.312E-04	1.366E-04	1.395E-04	1.395E-04
6.00E 01--8.00E 01	1.193E-04	1.298E-04	1.405E-04	1.511E-04	1.607E-04	1.689E-04	1.749E-04	1.782E-04	1.782E-04
4.00E 01--6.00E 01	1.678E-04	1.806E-04	1.933E-04	2.055E-04	2.164E-04	2.254E-04	2.320E-04	2.356E-04	2.356E-04
3.00E 01--4.00E 01	5.593E-04	5.844E-04	6.091E-04	6.333E-04	6.529E-04	6.699E-04	6.823E-04	6.911E-04	6.929E-03
2.00E 01--3.00E 01	6.734E-04	6.953E-04	7.164E-04	7.360E-04	7.532E-04	7.673E-04	7.775E-04	7.832E-04	7.832E-04
1.00E 01--2.00E 01	1.193E-03	1.210E-03	1.227E-03	1.244E-03	1.259E-03	1.272E-03	1.281E-03	1.287E-03	1.287E-03
5.00E 02--1.00E 01	3.266E-03	3.317E-03	3.366E-03	3.413E-03	3.455E-03	3.489E-03	3.513E-03	3.527E-03	3.527E-03
2.00E 02--5.00E 02	8.060E-03	8.151E-03	8.239E-03	8.321E-03	8.393E-03	8.452E-03	8.494E-03	8.518E-03	1.009E-01
	2.154E-03	2.165E-03	2.175E-03	2.184E-03	2.192E-03	2.198E-03	2.203E-03	2.206E-03	2.702E-02

1.108 TO 2.35 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9426	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.348E-05	1.348E-05	1.354E-05	1.375E-05	1.416E-05	1.479E-05	1.564E-05	1.675E-05	1.816E-05	1.990E-05
2.793E-05	2.806E-05	2.850E-05	2.936E-05	3.064E-05	3.239E-05	3.466E-05	3.754E-05	4.110E-05	4.579E-04
3.154E-04	3.165E-04	3.213E-04	3.307E-04	3.447E-04	3.637E-04	3.884E-04	4.195E-04	4.579E-04	5.045E-04
8.576E-05	8.614E-05	8.765E-05	9.062E-05	9.502E-05	1.010E-04	1.087E-04	1.186E-04	1.308E-04	1.456E-04
1.533E-04	1.540E-04	1.564E-04	1.613E-04	1.686E-04	1.784E-04	1.912E-04	2.073E-04	2.273E-04	2.518E-04
3.803E-05	3.829E-05	3.829E-05	4.125E-05	4.420E-05	4.828E-05	5.359E-05	6.070E-05	6.961E-05	8.045E-05
4.328E-05	4.355E-05	4.633E-05	4.680E-05	5.008E-05	5.466E-05	6.076E-05	6.868E-05	7.870E-05	9.207E-05
5.090E-05	5.120E-05	5.245E-05	5.494E-05	5.875E-05	6.408E-05	7.121E-05	8.043E-05	9.207E-05	1.113E-04
6.173E-05	6.209E-05	6.360E-05	6.642E-05	7.124E-05	7.770E-05	8.630E-05	9.738E-05	1.113E-04	1.288E-04
8.168E-05	8.218E-05	8.425E-05	8.836E-05	9.458E-05	1.031E-04	1.144E-04	1.288E-04	1.466E-04	1.686E-04
1.130E-04	1.138E-04	1.167E-04	1.226E-04	1.312E-04	1.430E-04	1.583E-04	1.775E-04	2.007E-04	2.292E-04
1.680E-04	1.691E-04	1.735E-04	1.821E-04	1.947E-04	2.116E-04	2.331E-04	2.592E-04	2.898E-04	3.251E-04
7.279E-04	7.306E-04	7.417E-04	7.631E-04	7.937E-04	8.336E-04	8.823E-04	9.389E-04	1.002E-03	1.082E-03
9.556E-04	9.591E-04	9.733E-04	9.988E-04	1.036E-03	1.081E-03	1.132E-03	1.187E-03	1.246E-03	1.310E-03
2.110E-03	2.111E-03	2.116E-03	2.125E-03	2.139E-03	2.158E-03	2.183E-03	2.214E-03	2.251E-03	2.292E-03
5.682E-03	5.682E-03	5.706E-03	5.752E-03	5.816E-03	5.899E-03	6.000E-03	6.116E-03	6.245E-03	6.386E-03
1.462E-02	1.464E-02	1.468E-02	1.477E-02	1.490E-02	1.506E-02	1.525E-02	1.547E-02	1.571E-02	1.597E-02
4.112E-03	4.113E-03	4.119E-03	4.130E-03	4.145E-03	4.165E-03	4.188E-03	4.214E-03	4.243E-03	4.273E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	2.889E-04
2.202E-05	2.202E-05	2.454E-05	2.745E-05	3.089E-05	3.407E-05	3.731E-05	4.000E-05	4.166E-05	5.952E-04
4.542E-05	4.542E-05	5.056E-05	5.648E-05	6.305E-05	6.990E-05	7.646E-05	8.189E-05	8.525E-05	6.584E-03
5.043E-04	5.043E-04	5.591E-04	6.222E-04	6.917E-04	7.641E-04	8.330E-04	8.900E-04	9.251E-04	1.924E-03
1.459E-04	1.459E-04	1.638E-04	1.846E-04	2.079E-04	2.323E-04	2.577E-04	2.751E-04	2.871E-04	3.295E-03
2.516E-04	2.516E-04	2.804E-04	3.135E-04	3.502E-04	3.883E-04	4.247E-04	4.545E-04	4.730E-04	1.093E-03
8.071E-05	8.071E-05	9.420E-05	1.101E-04	1.279E-04	1.467E-04	1.647E-04	1.795E-04	1.886E-04	1.227E-03
9.114E-05	9.114E-05	1.062E-04	1.237E-04	1.432E-04	1.634E-04	1.825E-04	1.981E-04	2.076E-04	1.420E-03
1.064E-04	1.064E-04	1.235E-04	1.433E-04	1.650E-04	1.871E-04	2.077E-04	2.243E-04	2.343E-04	1.692E-03
1.282E-04	1.282E-04	1.481E-04	1.708E-04	1.952E-04	2.198E-04	2.422E-04	2.599E-04	2.705E-04	2.180E-03
1.679E-04	1.679E-04	1.925E-04	2.197E-04	2.482E-04	2.760E-04	3.006E-04	3.197E-04	3.310E-04	2.898E-03
2.277E-04	2.277E-04	2.580E-04	2.905E-04	3.232E-04	3.541E-04	3.808E-04	4.010E-04	4.127E-04	4.041E-03
3.243E-04	3.243E-04	3.613E-04	3.993E-04	4.362E-04	4.697E-04	4.978E-04	5.185E-04	5.304E-04	1.323E-02
1.070E-03	1.070E-03	1.140E-03	1.210E-03	1.277E-03	1.337E-03	1.388E-03	1.426E-03	1.448E-03	1.608E-02
1.305E-03	1.305E-03	1.365E-03	1.423E-03	1.479E-03	1.528E-03	1.570E-03	1.601E-03	1.620E-03	2.886E-02
2.294E-03	2.294E-03	2.341E-03	2.392E-03	2.442E-03	2.489E-03	2.530E-03	2.561E-03	2.579E-03	7.162E-02
6.384E-03	6.384E-03	6.528E-03	6.673E-03	6.811E-03	6.936E-03	7.040E-03	7.117E-03	7.134E-02	1.997E-01
1.597E-02	1.597E-02	1.623E-02	1.649E-02	1.673E-02	1.695E-02	1.713E-02	1.726E-02	1.734E-02	5.355E-02
4.273E-03	4.273E-03	4.303E-03	4.332E-03	4.359E-03	4.383E-03	4.402E-03	4.416E-03	4.424E-03	

**1.108 TO 2.35 MEV NEUTRON SOURCE**

4 PI R\*\*2 FLUENCE AT 400.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
GROUP (MEV)	MU=-1.0000	MU=-0.9894	MU=-C.0466	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
00---1.00E 01	1.578E-05	1.586E-05	1.615E-05	1.674E-05	1.761E-05	1.883E-05	2.045E-05	2.256E-05	2.521E-05
00---8.00E 00	3.273E-05	3.288E-05	3.305E-05	3.471E-05	3.611E-05	3.901E-05	4.232E-05	4.644E-05	5.219E-05
00---6.50E 00	3.701E-04	3.718E-04	3.735E-04	3.917E-04	4.114E-04	4.385E-04	4.745E-04	5.211E-04	5.808E-04
00---5.00E 00	9.957E-05	1.001E-04	1.023E-04	1.066E-04	1.129E-04	1.214E-04	1.327E-04	1.475E-04	1.671E-04
00---4.00E 00	1.792E-04	1.837E-04	1.873E-04	1.908E-04	2.008E-04	2.149E-04	2.336E-04	2.579E-04	2.891E-04
00---3.00E 00	4.279E-05	4.313E-05	4.455E-05	4.733E-05	5.148E-05	5.732E-05	6.529E-05	7.602E-05	9.034E-05
00---2.50E 00	5.089E-05	5.098E-05	5.089E-05	5.384E-05	5.842E-05	6.501E-05	7.410E-05	8.637E-05	1.026E-04
00---2.00E 00	5.811E-05	5.849E-05	6.010E-05	6.343E-05	6.872E-05	7.547E-05	8.420E-05	1.017E-04	1.209E-04
00---1.66E 00	7.076E-05	7.121E-05	7.318E-05	7.725E-05	8.374E-05	9.326E-05	1.065E-04	1.241E-04	1.473E-04
00---1.33E 00	9.384E-05	9.453E-05	9.741E-05	1.032E-04	1.123E-04	1.252E-04	1.429E-04	1.665E-04	1.965E-04
00---1.00E 00	1.310E-04	1.363E-04	1.448E-04	1.580E-04	1.761E-04	2.012E-04	2.34E-04	2.743E-04	3.243E-04
00---8.00E-01	1.968E-04	1.985E-04	2.056E-04	2.192E-04	2.394E-04	2.671E-04	3.033E-04	3.492E-04	4.051E-04
00---6.00E-01	2.84E-04	9.329E-04	9.515E-04	9.873E-04	1.039E-03	1.119E-03	1.194E-03	1.296E-03	1.410E-03
00---4.00E-01	1.285E-03	1.263E-03	1.295E-03	1.341E-03	1.410E-03	1.494E-03	1.589E-03	1.690E-03	1.795E-03
00---3.00E-01	2.200E-01	3.018E-03	3.038E-03	3.038E-03	3.059E-03	3.087E-03	3.126E-03	3.176E-03	3.239E-03
00---2.00E-01	8.123E-03	8.134E-03	8.256E-03	8.256E-03	8.370E-03	8.517E-03	8.697E-03	8.907E-03	9.143E-03
00---1.00E-01	2.141E-02	2.143E-02	2.151E-02	2.168E-02	2.190E-02	2.220E-02	2.255E-02	2.296E-02	2.342E-02
00---5.00E-02	6.106E-03	6.109E-03	6.120E-03	6.140E-03	6.169E-03	6.205E-03	6.246E-03	6.298E-03	6.352E-03
ENERGY	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	ANGLE 18	SCALAR
GROUP (MEV)	MU= 0.0950	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	MU= 0.9894	FLUX
00---1.00E 01	2.873E-05	3.306E-05	4.469E-05	5.179E-05	5.512E-05	6.563E-05	6.993E-05	6.993E-05	3.965E-04
00---8.00E 00	5.922E-05	7.882E-05	9.160E-05	1.059E-04	1.207E-04	1.388E-04	1.424E-04	1.424E-04	8.155E-04
00---6.50E 00	5.561E-04	6.638E-04	9.980E-04	1.148E-03	1.301E-03	1.536E-03	1.525E-03	1.525E-03	8.965E-04
00---5.00E 00	1.913E-04	2.224E-04	3.069E-04	3.589E-04	4.126E-04	4.703E-04	4.917E-04	4.917E-04	2.672E-03
00---4.00E 00	3.288E-04	4.391E-04	5.108E-04	5.907E-04	6.723E-04	7.739E-04	7.908E-04	7.908E-04	4.527E-03
00---3.00E 00	1.091E-04	1.335E-04	2.012E-04	2.431E-04	2.860E-04	3.236E-04	3.480E-04	3.480E-04	1.605E-03
00---2.50E 00	1.239E-04	1.835E-04	2.259E-04	2.705E-04	3.161E-04	3.550E-04	3.798E-04	3.798E-04	1.803E-03
00---2.00E 00	1.457E-04	2.153E-04	2.611E-04	3.101E-04	3.581E-04	3.985E-04	4.239E-04	4.239E-04	2.087E-03
00---1.66E 00	1.771E-04	2.593E-04	3.099E-04	3.637E-04	4.148E-04	4.567E-04	4.826E-04	4.826E-04	2.488E-03
00---1.33E 00	2.352E-04	3.358E-04	3.949E-04	4.546E-04	5.092E-04	5.525E-04	5.795E-04	5.795E-04	3.205E-03
00---1.00E 00	3.241E-04	4.438E-04	5.138E-04	5.784E-04	6.350E-04	6.783E-04	7.038E-04	7.038E-04	4.260E-03
00---8.00E-01	4.699E-04	6.160E-04	6.893E-04	7.566E-04	8.133E-04	8.556E-04	8.801E-04	8.801E-04	5.936E-03
00---6.00E-01	1.534E-03	1.794E-03	1.919E-03	2.065E-03	2.134E-03	2.210E-03	2.255E-03	2.255E-03	1.898E-02
00---4.00E-01	3.902E-03	2.009E-03	2.217E-03	2.312E-03	2.394E-03	2.456E-03	2.493E-03	2.493E-03	3.332E-02
00---3.00E-01	3.315E-03	3.497E-03	3.595E-03	3.690E-03	3.774E-03	3.838E-03	3.876E-03	3.876E-03	4.189E-02
00---2.00E-01	9.402E-03	9.951E-03	1.022E-02	1.047E-02	1.068E-02	1.083E-02	1.092E-02	1.092E-02	1.176E-01
00---1.00E-01	2.391E-02	2.540E-02	2.640E-02	2.693E-02	2.746E-02	2.786E-02	2.806E-02	2.806E-02	2.989E-01
00---5.00E-02	6.408E-03	6.466E-03	6.575E-03	6.622E-03	6.660E-03	6.688E-03	6.704E-03	6.704E-03	8.028E-02

## 1.108 TO 2.35 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

4 PI R\*2 FLUENCE AT 500.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.09894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.560E-05	1.568E-05	1.601E-05	1.677E-05	1.765E-05	1.902E-05	2.089E-05	2.338E-05	2.669E-05
6.50E 00---8.00E 00	3.234E-05	3.251E-05	3.321E-05	3.457E-05	3.61E-05	3.943E-05	4.325E-05	4.834E-05	5.508E-05
5.00E 00---6.50E 00	3.664E-04	3.683E-04	3.759E-04	3.907E-04	4.128E-04	4.438E-04	4.849E-04	5.399E-04	6.124E-04
4.00E 00---5.00E 00	9.740E-05	9.808E-05	1.008E-04	1.059E-04	1.130E-04	1.227E-04	1.356E-04	1.530E-04	1.765E-04
3.00E 00---4.00E 00	1.766E-04	1.777E-04	1.818E-04	1.898E-04	2.014E-04	2.174E-04	2.388E-04	2.675E-04	3.057E-04
2.50E 00---3.00E 00	4.083E-05	4.124E-05	4.289E-05	4.608E-05	5.080E-05	5.744E-05	6.670E-05	7.942E-05	9.759E-05
2.00E 00---2.50E 00	4.749E-05	4.785E-05	4.938E-05	5.254E-05	5.760E-05	6.516E-05	7.591E-05	9.090E-05	1.116E-04
1.66E 00---2.00E 00	5.680E-05	5.714E-05	5.867E-05	6.203E-05	6.785E-05	7.683E-05	8.978E-05	1.078E-04	1.324E-04
1.33E 00---1.66E 00	6.943E-05	6.983E-05	7.169E-05	7.584E-05	8.302E-05	9.421E-05	1.103E-04	1.326E-04	1.629E-04
1.00E 00---1.33E 00	9.182E-05	9.253E-05	9.561E-05	1.020E-04	1.125E-04	1.280E-04	1.500E-04	1.803E-04	2.212E-04
8.00E-01---1.00E 00	1.273E-04	1.287E-04	1.341E-04	1.448E-04	1.607E-04	1.835E-04	2.149E-04	2.578E-04	3.146E-04
6.00E-01---8.00E-01	1.944E-04	1.966E-04	2.037E-04	2.230E-04	2.486E-04	2.843E-04	3.327E-04	3.95E-04	4.772E-04
4.00E-01---6.00E-01	1.004E-03	1.010E-03	1.034E-03	1.081E-03	1.152E-03	1.247E-03	1.368E-03	1.512E-03	1.677E-03
3.00E-01---4.00E-01	1.396E-03	1.406E-03	1.448E-03	1.525E-03	1.629E-03	1.754E-03	1.894E-03	2.041E-03	2.191E-03
2.00E-01---3.00E-01	3.664E-03	3.666E-03	3.673E-03	3.688E-03	3.710E-03	3.742E-03	3.788E-03	3.851E-03	3.935E-03
1.00E-01---2.00E-01	9.867E-03	9.881E-03	9.941E-03	1.005E-02	1.021E-02	1.042E-02	1.067E-02	1.097E-02	1.132E-02
5.00E-02---1.00E-01	2.659E-02	2.662E-02	2.675E-02	2.698E-02	2.731E-02	2.774E-02	2.826E-02	2.886E-02	2.954E-02
2.00E-02---5.00E-02	7.684E-03	7.688E-03	7.704E-03	7.734E-03	7.775E-03	7.829E-03	7.892E-03	7.965E-03	8.046E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	3.106E-05	3.680E-05	4.425E-05	5.369E-05	6.509E-05	7.777E-05	8.990E-05	9.847E-05	4.575E-04
6.50E 00---8.00E 00	7.398E-05	7.564E-05	9.072E-05	1.098E-04	1.327E-04	1.581E-04	1.824E-04	1.959E-04	5.383E-04
5.00E 00---6.50E 00	7.073E-04	8.306E-04	9.889E-04	1.187E-03	1.424E-03	1.684E-03	1.931E-03	2.104E-03	1.025E-02
4.00E 00---5.00E 00	2.079E-04	2.496E-04	3.042E-04	3.739E-04	4.587E-04	5.532E-04	6.632E-04	7.043E-04	3.124E-03
3.00E 00---4.00E 00	1.224E-04	4.223E-04	5.076E-04	6.150E-04	7.432E-04	8.837E-04	1.016E-03	1.107E-03	5.224E-03
2.50E 00---3.00E 00	1.224E-04	1.564E-04	2.021E-04	2.611E-04	3.326E-04	4.111E-04	4.841E-04	5.339E-04	1.996E-03
2.00E 00---2.50E 00	1.399E-04	1.785E-04	2.297E-04	2.947E-04	3.715E-04	4.534E-04	5.276E-04	5.772E-04	2.242E-03
1.66E 00---2.00E 00	1.658E-04	2.109E-04	2.697E-04	3.425E-04	4.260E-04	5.119E-04	5.72E-04	6.363E-04	2.598E-03
1.33E 00---1.66E 00	2.037E-04	2.577E-04	3.265E-04	4.089E-04	4.948E-04	5.897E-04	6.556E-04	7.136E-04	3.098E-03
1.00E 00---1.33E 00	2.753E-04	3.443E-04	4.283E-04	5.237E-04	6.232E-04	7.163E-04	7.912E-04	8.369E-04	3.991E-03
8.00E-01---1.00E 00	3.871E-04	4.752E-04	5.757E-04	6.826E-04	7.873E-04	8.800E-04	9.512E-04	9.933E-04	5.302E-03
6.00E-01---8.00E-01	5.740E-04	6.831E-04	7.932E-04	9.120E-04	1.017E-03	1.105E-03	1.171E-03	1.210E-03	7.380E-03
4.00E-01---6.00E-01	1.856E-03	2.044E-03	2.322E-03	2.456E-03	2.587E-03	2.736E-03	2.853E-03	2.94E-03	2.296E-02
3.00E-01---4.00E-01	2.340E-03	2.489E-03	2.638E-03	2.686E-03	2.927E-03	3.052E-03	3.149E-03	3.207E-03	2.856E-02
2.00E-01---3.00E-01	4.040E-03	4.165E-03	4.306E-03	4.455E-03	4.600E-03	4.731E-03	4.833E-03	4.895E-03	5.133E-02
1.00E-01---2.00E-01	1.169E-02	1.210E-02	1.251E-02	1.292E-02	1.330E-02	1.353E-02	1.387E-02	1.402E-02	1.464E-01
5.00E-02---1.00E-01	3.027E-02	3.104E-02	3.181E-02	3.258E-02	3.323E-02	3.380E-02	3.422E-02	3.47E-02	3.784E-01
2.00E-02---5.00E-02	8.131E-03	8.218E-03	8.304E-03	8.385E-03	8.456E-03	8.516E-03	8.559E-03	8.594E-03	1.016E-01

4 PI R\*\*2 FLUENCE AT 600.0 METERS

1.108 TO 2.35 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.376E-05	1.384E-05	1.415E-05	1.480E-05	1.575E-05	1.709E-05	1.893E-05	2.144E-05	2.486E-05
6.50E 00---8.00E 00	2.849E-05	2.866E-05	2.936E-05	3.071E-05	3.269E-05	3.544E-05	3.920E-05	4.432E-05	5.130E-05
5.00E 00---6.50E 00	3.235E-04	3.253E-04	3.328E-04	3.478E-04	3.689E-04	3.988E-04	4.396E-04	4.948E-04	5.696E-04
4.00E 00---5.00E 00	8.464E-05	8.541E-05	8.841E-05	9.379E-05	1.010E-04	1.104E-04	1.230E-04	1.404E-04	1.648E-04
3.00E 00---4.00E 00	1.550E-04	1.561E-04	1.605E-04	1.686E-04	1.800E-04	1.956E-04	2.160E-04	2.455E-04	2.852E-04
2.00E 00---3.00E 00	3.479E-05	3.523E-05	3.699E-05	4.025E-05	4.491E-05	5.140E-05	6.059E-05	7.385E-05	9.306E-05
2.00E 00---2.50E 00	4.144E-05	4.173E-05	4.306E-05	4.591E-05	5.071E-05	5.819E-05	6.915E-05	8.482E-05	1.071E-04
1.66E 00---2.00E 00	5.037E-05	5.055E-05	5.158E-05	5.428E-05	5.964E-05	6.867E-05	8.217E-05	1.013E-04	1.281E-04
1.33E 00---1.66E 00	6.184E-05	6.204E-05	6.322E-05	6.651E-05	7.323E-05	8.464E-05	1.017E-04	1.257E-04	1.593E-04
1.00E 00---1.33E 00	8.095E-05	8.152E-05	8.418E-05	9.011E-05	1.004E-04	1.165E-04	1.400E-04	1.734E-04	2.202E-04
8.00E 01---1.00E 01	1.108E-04	1.123E-04	1.181E-04	1.293E-04	1.460E-04	1.703E-04	2.042E-04	2.528E-04	3.205E-04
6.00E 01---8.00E 01	1.708E-04	1.733E-04	1.836E-04	2.028E-04	2.306E-04	2.699E-04	3.250E-04	4.011E-04	5.015E-04
4.00E 01---6.00E 01	9.737E-04	9.801E-04	1.007E-03	1.081E-03	1.142E-03	1.255E-03	1.403E-03	1.579E-03	1.784E-03
3.00E 01---4.00E 01	1.400E-03	1.400E-03	1.454E-03	1.554E-03	1.689E-03	1.851E-03	2.028E-03	2.211E-03	2.392E-03
2.00E 01---3.00E 01	3.993E-03	3.995E-03	4.001E-03	4.014E-03	4.033E-03	4.052E-03	4.107E-03	4.174E-03	4.268E-03
1.00E 01---2.00E 01	1.073E-02	1.075E-02	1.082E-02	1.096E-02	1.115E-02	1.140E-02	1.171E-02	1.208E-02	1.250E-02
5.00E 02---1.00E 01	2.956E-02	2.960E-02	2.975E-02	3.006E-02	3.045E-02	3.098E-02	3.163E-02	3.239E-02	3.325E-02
2.00E 02---5.00E 02	8.638E-03	8.643E-03	8.663E-03	8.700E-03	8.752E-03	8.819E-03	8.900E-03	8.992E-03	9.094E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
3.00E 00---1.00E 01	2.954E-05	3.595E-05	4.470E-05	5.647E-05	7.173E-05	9.003E-05	1.089E-04	1.232E-04	4.701E-04
5.00E 00---8.00E 00	6.081E-05	7.380E-05	9.145E-05	1.151E-04	1.457E-04	1.823E-04	2.198E-04	2.481E-04	9.611E-04
5.00E 00---5.00E 00	6.708E-04	8.075E-04	9.915E-04	1.235E-03	1.547E-03	1.916E-03	2.291E-03	2.573E-03	1.040E-02
4.00E 00---5.00E 00	1.988E-04	2.459E-04	3.107E-04	3.899E-04	5.142E-04	6.528E-04	7.948E-04	9.005E-04	3.258E-03
3.00E 00---4.00E 00	3.395E-04	4.136E-04	5.142E-04	6.487E-04	8.206E-04	1.022E-03	1.225E-03	1.373E-03	5.369E-03
2.50E 00---3.00E 00	1.208E-04	1.608E-04	2.176E-04	2.962E-04	3.981E-04	5.175E-04	6.358E-04	7.198E-04	2.288E-03
2.00E 00---2.50E 00	1.390E-04	1.849E-04	2.495E-04	3.369E-04	4.467E-04	5.704E-04	6.882E-04	7.701E-04	2.495E-03
1.66E 00---1.66E 00	1.663E-04	2.207E-04	2.960E-04	3.948E-04	5.140E-04	6.423E-04	7.593E-04	8.378E-04	2.892E-03
1.33E 00---1.33E 00	2.068E-04	2.732E-04	3.626E-04	4.752E-04	6.044E-04	7.365E-04	8.510E-04	9.250E-04	3.450E-03
1.00E 00---1.33E 00	2.851E-04	3.723E-04	4.832E-04	6.131E-04	7.533E-04	8.962E-04	9.942E-04	1.061E-03	4.445E-03
8.00E 01---1.00E 01	4.108E-04	5.246E-04	6.591E-04	8.028E-04	9.459E-04	1.073E-03	1.171E-03	1.228E-03	5.903E-03
6.00E 01---8.00E 01	6.256E-04	7.680E-04	9.195E-04	1.069E-03	1.206E-03	1.322E-03	1.409E-03	1.460E-03	8.203E-03
4.00E 01---6.00E 01	2.006E-03	2.237E-03	2.470E-03	2.695E-03	2.908E-03	3.098E-03	3.250E-03	3.344E-03	2.478E-02
3.00E 01---4.00E 01	2.569E-03	2.744E-03	2.923E-03	3.102E-03	3.283E-03	3.444E-03	3.572E-03	3.648E-03	3.122E-02
2.00E 01---3.00E 01	4.392E-03	4.545E-03	4.721E-03	4.901E-03	5.098E-03	5.269E-03	5.409E-03	5.488E-03	5.613E-02
1.00E 01---2.00E 01	1.297E-02	1.348E-02	1.401E-02	1.453E-02	1.503E-02	1.546E-02	1.578E-02	1.598E-02	1.626E-01
5.00E 02---1.00E 01	3.419E-02	3.517E-02	3.618E-02	3.715E-02	3.804E-02	3.880E-02	3.937E-02	3.970E-02	4.276E-01
2.00E 02---5.00E 02	9.203E-03	9.315E-03	9.426E-03	9.531E-03	9.625E-03	9.703E-03	9.760E-03	9.793E-03	1.153E-01



## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 900.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--1.00E 01	6.170E-06	6.221E-06	6.428E-06	6.807E-06	7.336E-06	8.059E-06	9.068E-06	1.052E-05	1.265E-05
6.50E 00--1.00E 01	1.263E-05	1.277E-05	1.377E-05	1.415E-05	1.529E-05	1.677E-05	1.878E-05	2.171E-05	2.605E-05
5.00E 00--6.50E 00	1.450E-04	1.463E-04	1.513E-04	1.603E-04	1.724E-04	1.884E-04	2.105E-04	2.422E-04	2.885E-04
4.00E 00--5.00E 00	3.389E-05	3.488E-05	3.899E-05	4.354E-05	4.848E-05	5.308E-05	5.880E-05	6.822E-05	8.398E-05
3.00E 00--4.00E 00	6.667E-05	6.775E-05	7.176E-05	7.806E-05	8.507E-05	9.302E-05	1.037E-04	1.201E-04	1.454E-04
2.50E 00--3.00E 00	1.332E-05	1.381E-05	1.588E-05	1.825E-05	2.110E-05	2.438E-05	2.921E-05	3.728E-05	5.058E-05
2.00E 00--2.50E 00	1.951E-05	1.949E-05	1.959E-05	2.032E-05	2.251E-05	2.687E-05	3.393E-05	4.437E-05	5.983E-05
1.66E 00--2.00E 00	2.671E-05	2.618E-05	2.462E-05	2.357E-05	2.545E-05	3.137E-05	4.121E-05	5.473E-05	7.361E-05
1.33E 00--1.66E 00	3.357E-05	3.278E-05	3.044E-05	2.882E-05	3.134E-05	3.930E-05	5.222E-05	6.971E-05	9.446E-05
1.00E 00--1.33E 00	3.965E-05	3.939E-05	3.900E-05	4.039E-05	4.603E-05	5.710E-05	7.415E-05	9.920E-05	1.380E-04
8.00E 01--1.00E 01	4.598E-05	4.731E-05	5.232E-05	6.142E-05	7.301E-05	8.873E-05	1.128E-04	1.528E-04	2.188E-04
6.00E 01--8.00E 01	7.069E-05	7.359E-05	8.499E-05	1.018E-04	1.229E-04	1.516E-04	1.973E-04	2.724E-04	3.863E-04
4.00E 01--6.00E 01	6.086E-04	6.132E-04	6.377E-04	6.775E-04	7.514E-04	8.641E-04	1.020E-03	1.218E-03	1.448E-03
3.00E 01--4.00E 01	9.072E-04	9.235E-04	9.915E-04	1.116E-03	1.286E-03	1.488E-03	1.702E-03	1.906E-03	2.089E-03
2.00E 01--3.00E 01	3.500E-03	3.501E-03	3.501E-03	3.501E-03	3.498E-03	3.498E-03	3.510E-03	3.546E-03	3.618E-03
1.00E 01--2.00E 01	9.257E-03	9.274E-03	9.349E-03	9.487E-03	9.685E-03	9.947E-03	1.027E-02	1.066E-02	1.117E-02
5.00E 02--1.00E 01	2.689E-02	2.693E-02	2.710E-02	2.742E-02	2.787E-02	2.846E-02	2.919E-02	3.005E-02	3.104E-02
2.00E 02--5.00E 02	8.055E-03	8.061E-03	8.083E-03	8.124E-03	8.182E-03	8.258E-03	8.349E-03	8.455E-03	8.573E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	3.397E-04
6.50E 00--1.00E 01	1.581E-05	2.058E-05	2.799E-05	3.975E-05	5.838E-05	8.641E-05	1.231E-04	1.577E-04	6.859E-04
5.00E 00--6.50E 00	3.249E-05	4.214E-05	5.696E-05	8.035E-05	1.173E-04	1.724E-04	2.439E-04	3.107E-04	7.157E-03
4.00E 00--5.00E 00	3.561E-04	4.560E-04	6.071E-04	8.411E-04	1.203E-03	1.733E-03	2.409E-03	3.032E-03	2.476E-03
3.00E 00--4.00E 00	1.084E-04	1.448E-04	2.013E-04	2.922E-04	4.405E-04	6.641E-04	9.474E-04	1.201E-03	3.872E-03
2.50E 00--3.00E 00	1.833E-04	2.397E-04	3.261E-04	4.629E-04	6.761E-04	9.834E-04	1.358E-03	1.684E-03	2.034E-03
2.00E 00--2.50E 00	7.185E-05	1.063E-04	1.636E-04	2.594E-04	4.104E-04	6.226E-04	8.691E-04	1.071E-03	2.296E-03
1.66E 00--2.00E 00	8.426E-05	1.252E-04	1.945E-04	3.065E-04	4.722E-04	6.891E-04	9.250E-04	1.108E-03	2.665E-03
1.33E 00--1.66E 00	1.036E-04	1.551E-04	2.412E-04	3.737E-04	5.557E-04	7.747E-04	9.947E-04	1.155E-03	3.182E-03
1.00E 00--1.33E 00	1.345E-04	2.024E-04	3.112E-04	4.673E-04	6.944E-04	8.906E-04	1.079E-03	1.213E-03	4.098E-03
8.00E 01--1.00E 01	2.011E-04	3.003E-04	4.434E-04	6.271E-04	8.335E-04	1.034E-03	1.197E-03	1.297E-03	5.420E-03
6.00E 01--8.00E 01	3.200E-04	4.609E-04	6.375E-04	8.353E-04	1.032E-03	1.203E-03	1.329E-03	1.401E-03	7.499E-03
4.00E 01--6.00E 01	5.396E-04	7.223E-04	9.165E-04	1.103E-03	1.269E-03	1.404E-03	1.506E-03	1.567E-03	2.067E-02
3.00E 01--4.00E 01	1.696E-03	1.945E-03	2.185E-03	2.412E-03	2.629E-03	2.835E-03	3.013E-03	3.132E-03	2.695E-02
2.50E 01--3.00E 01	2.252E-03	2.408E-03	2.576E-03	2.762E-03	2.961E-03	3.149E-03	3.299E-03	3.389E-03	4.853E-02
2.00E 01--2.00E 01	3.732E-03	3.807E-03	4.075E-03	4.283E-03	4.496E-03	4.696E-03	4.861E-03	4.963E-03	1.463E-01
1.00E 01--2.00E 01	1.00E 01--2.00E 01	1.220E 02	1.280E 02	1.341E 02	1.399E 02	1.451E 02	1.492E 02	1.516E 02	3.894E 02
5.00E 02--1.00E 01	3.213E-02	3.330E-02	3.451E-02	3.570E-02	3.682E-02	3.778E-02	3.851E-02	3.941E-02	4.024E-01
2.00E 02--5.00E 02	8.701E-03	8.833E-03	8.955E-03	9.092E-03	9.205E-03	9.301E-03	9.371E-03	9.412E-03	1.089E-01

## 1.108 TO 2.35 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*2 FLUENCE AT 1200.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E-00--1.00E-01	1.856E-06	1.887E-06	2.003E-06	2.188E-06	2.395E-06	2.634E-06	2.937E-06	3.466E-06	4.290E-06
6.50E-00--8.00E-01	3.629E-06	3.725E-06	4.073E-06	4.582E-06	5.067E-06	5.524E-06	6.104E-06	7.089E-06	8.790E-06
5.00E-00--6.50E-01	4.331E-05	4.413E-05	4.714E-05	5.172E-05	5.652E-05	6.164E-05	6.845E-05	7.943E-05	9.738E-05
4.00E-00--5.00E-01	5.887E-06	6.070E-06	6.455E-06	7.082E-06	7.765E-06	8.538E-06	9.518E-06	1.104E-05	1.349E-05
3.00E-00--4.00E-01	1.690E-05	1.790E-05	2.135E-05	2.585E-05	3.111E-05	3.710E-05	4.411E-05	5.353E-05	6.619E-05
2.50E-00--3.00E-01	2.057E-06	2.178E-06	2.531E-06	3.051E-06	3.677E-06	4.419E-06	5.391E-06	6.620E-06	8.259E-06
2.00E-00--2.50E-01	7.595E-06	7.995E-06	9.467E-06	1.144E-05	1.380E-05	1.688E-05	2.097E-05	2.646E-05	3.402E-05
1.66E-00--2.00E-01	1.354E-05	1.461E-05	1.765E-05	2.167E-05	2.680E-05	3.335E-05	4.145E-05	5.166E-05	6.577E-05
1.33E-00--1.66E-01	1.775E-05	1.938E-05	2.339E-05	2.899E-05	3.600E-05	4.469E-05	5.555E-05	6.946E-05	8.797E-05
1.00E-00--1.33E-01	1.676E-05	1.895E-05	2.395E-05	3.099E-05	3.922E-05	4.885E-05	6.041E-05	7.555E-05	9.596E-05
8.00E-01--1.00E-01	9.860E-06	1.057E-05	1.304E-05	1.605E-05	2.000E-05	2.500E-05	3.125E-05	3.938E-05	5.000E-05
6.00E-01--8.00E-01	1.261E-05	1.541E-05	2.510E-05	3.772E-05	5.482E-05	7.800E-05	1.095E-04	1.512E-04	2.080E-04
4.00E-01--6.00E-01	2.882E-04	2.895E-04	2.985E-04	3.202E-04	3.637E-04	4.300E-04	5.487E-04	7.046E-04	9.200E-04
3.00E-01--4.00E-01	4.306E-04	4.429E-04	4.952E-04	5.928E-04	7.282E-04	9.040E-04	1.156E-03	1.520E-03	2.000E-03
2.00E-01--3.00E-01	2.231E-03	2.231E-03	2.228E-03	2.221E-03	2.205E-03	2.184E-03	2.167E-03	2.168E-03	2.198E-03
1.00E-01--2.00E-01	5.728E-03	5.740E-03	5.791E-03	5.844E-03	6.017E-03	6.193E-03	6.411E-03	6.755E-03	7.198E-03
5.00E-02--1.00E-01	1.723E-02	1.725E-02	1.738E-02	1.760E-02	1.791E-02	1.832E-02	1.883E-02	1.944E-02	2.014E-02
2.00E-02--5.00E-02	5.231E-03	5.235E-03	5.251E-03	5.279E-03	5.320E-03	5.373E-03	5.437E-03	5.512E-03	5.596E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	5.599E-06	7.704E-06	1.129E-05	1.788E-05	3.056E-05	5.445E-05	9.411E-05	1.413E-04	1.807E-04
6.50E-00--8.00E-01	1.152E-05	1.578E-05	2.286E-05	3.576E-05	6.060E-05	1.070E-04	1.828E-04	2.711E-04	3.582E-04
5.00E-00--6.50E-01	1.254E-04	1.688E-04	2.395E-04	3.650E-04	5.983E-04	1.021E-03	1.695E-03	2.464E-03	3.542E-03
4.00E-00--5.00E-01	3.978E-05	5.683E-05	8.362E-05	1.353E-04	2.422E-04	4.441E-04	7.563E-04	1.089E-03	1.388E-03
3.00E-00--4.00E-01	6.625E-05	9.174E-05	1.337E-04	2.125E-04	3.639E-04	6.293E-04	1.015E-03	1.408E-03	2.041E-03
2.50E-00--3.00E-01	2.833E-05	4.533E-05	7.804E-05	1.445E-04	2.707E-04	4.790E-04	7.569E-04	1.014E-03	1.337E-03
2.00E-00--2.50E-01	3.306E-05	5.407E-05	9.779E-05	1.819E-04	3.254E-04	5.372E-04	7.936E-04	1.013E-03	1.514E-03
1.66E-00--2.00E-01	4.116E-05	6.980E-05	1.297E-04	2.361E-04	3.975E-04	6.375E-04	8.338E-04	1.007E-03	1.759E-03
1.33E-00--1.66E-01	5.628E-05	9.869E-05	1.808E-04	3.122E-04	4.884E-04	6.885E-04	8.765E-04	1.007E-03	2.100E-03
1.00E-00--1.33E-01	9.560E-05	1.665E-04	2.824E-04	4.401E-04	6.206E-04	7.933E-04	9.273E-04	1.004E-03	2.700E-03
8.00E-01--1.00E-01	1.765E-04	2.877E-04	4.322E-04	5.800E-04	7.581E-04	8.895E-04	1.034E-03	1.095E-03	3.555E-03
6.00E-01--8.00E-01	3.375E-04	4.860E-04	6.402E-04	7.809E-04	8.968E-04	9.870E-04	1.034E-03	1.095E-03	4.886E-03
4.00E-01--6.00E-01	1.045E-03	1.214E-03	1.368E-03	1.504E-03	1.632E-03	1.763E-03	1.889E-03	1.979E-03	1.238E-02
3.00E-01--4.00E-01	1.409E-03	1.490E-03	1.585E-03	1.641E-03	1.632E-03	1.632E-03	1.632E-03	1.632E-03	1.632E-02
2.00E-01--3.00E-01	2.264E-03	2.362E-03	2.485E-03	2.622E-03	2.764E-03	2.900E-03	3.014E-03	3.088E-03	2.988E-02
1.00E-01--2.00E-01	7.334E-03	7.724E-03	8.141E-03	8.570E-03	8.985E-03	9.357E-03	9.688E-03	9.824E-03	9.246E-02
5.00E-02--1.00E-01	2.092E-02	2.176E-02	2.264E-02	2.352E-02	2.434E-02	2.505E-02	2.560E-02	2.592E-02	2.623E-01
2.00E-02--5.00E-02	5.687E-03	5.782E-03	5.878E-03	5.969E-03	6.052E-03	6.122E-03	6.173E-03	6.203E-03	7.122E-02

## 1.108 TO 2.35 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9994	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
8.00E 00--1.00E 01	3.942E-07	4.170E-07	4.893E-07	5.866E-07	6.629E-07	7.132E-07	7.631E-07	8.930E-07	1.148E-06
6.50E 00--8.00E 00	9.237E-07	6.987E-07	9.456E-07	1.259E-06	1.466E-06	1.531E-06	1.557E-06	1.761E-06	2.319E-06
5.00E 00--6.50E 00	9.102E-06	9.641E-06	1.151E-05	1.396E-05	1.572E-05	1.668E-05	1.767E-05	2.030E-05	2.599E-05
4.00E 00--5.00E 00	-2.236E-06	-1.237E-06	1.351E-06	4.959E-06	6.138E-06	5.500E-06	4.032E-06	3.866E-06	6.843E-06
3.00E 00--4.00E 00	9.855E-07	1.859E-06	4.456E-06	7.589E-06	9.166E-06	8.671E-06	7.878E-06	8.968E-06	1.309E-05
2.50E 00--3.00E 00	-1.094E-06	-6.242E-07	5.839E-07	2.197E-06	2.600E-06	2.238E-06	1.914E-06	2.778E-06	5.325E-06
2.00E 00--2.50E 00	3.155E-06	2.948E-06	2.292E-06	1.346E-06	1.045E-06	1.744E-06	3.260E-06	5.172E-06	7.120E-06
1.66E 00--2.00E 00	7.676E-06	6.797E-06	3.294E-06	4.081E-07	-1.490E-07	1.566E-06	5.107E-06	7.987E-06	9.209E-06
1.33E 00--1.66E 00	1.047E-05	9.163E-06	4.371E-06	6.903E-08	-3.848E-07	2.251E-06	7.204E-06	1.053E-05	1.191E-05
1.00E 00--1.33E 00	7.849E-06	6.986E-06	3.881E-06	6.543E-06	2.399E-06	2.215E-06	9.364E-06	1.302E-05	1.913E-05
8.00E 00--1.00E 01	-1.326E-06	-4.213E-07	2.402E-06	6.543E-06	9.125E-06	1.045E-05	1.201E-05	1.935E-05	4.048E-05
6.00E 00--8.00E-01	-5.073E-06	-2.673E-06	4.371E-06	1.350E-05	1.742E-05	1.969E-05	2.706E-05	3.494E-05	1.340E-04
4.00E 00--6.00E-01	1.251E-04	1.252E-04	1.271E-04	1.351E-04	1.559E-04	1.965E-04	2.613E-04	3.494E-04	7.143E-04
3.00E 00--4.00E-01	1.793E-04	1.866E-04	2.182E-04	2.785E-04	3.641E-04	4.672E-04	5.696E-04	6.556E-04	1.144E-03
2.00E 00--3.00E-01	1.220E-03	1.219E-03	1.217E-03	1.209E-03	1.193E-03	1.171E-03	1.149E-03	1.137E-03	3.709E-03
1.00E 00--2.00E-01	3.024E-03	3.031E-03	3.059E-03	3.111E-03	3.184E-03	3.280E-03	3.398E-03	3.541E-03	1.089E-02
5.00E 00--1.00E-01	9.272E-03	9.288E-03	9.353E-03	9.473E-03	9.647E-03	9.876E-03	1.016E-02	1.050E-02	1.089E-02
2.00E 00--5.00E-02	2.831E-03	2.833E-03	2.841E-03	2.857E-03	2.880E-03	2.909E-03	2.945E-03	2.987E-03	3.034E-03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
8.00E 00--1.00E 01	1.587E-06	2.296E-06	3.556E-06	6.210E-06	1.246E-05	2.726E-05	5.838E-05	1.049E-04	8.594E-05
6.50E 00--8.00E 00	3.297E-06	4.760E-06	7.171E-06	1.222E-05	2.434E-05	5.288E-05	1.112E-04	1.954E-04	1.603E-04
5.00E 00--6.50E 00	3.553E-05	4.994E-05	7.380E-05	1.219E-04	2.309E-04	4.750E-04	9.607E-04	1.644E-03	1.530E-03
4.00E 00--5.00E 00	1.241E-05	1.881E-05	2.706E-05	4.696E-05	1.033E-04	2.573E-04	4.853E-04	7.947E-04	6.876E-04
3.00E 00--4.00E 00	1.990E-05	2.865E-05	4.265E-05	7.554E-05	1.563E-04	3.273E-04	6.172E-04	9.554E-04	9.515E-04
2.50E 00--3.00E 00	9.249E-06	1.521E-05	2.346E-05	6.277E-05	1.414E-04	2.905E-04	5.131E-04	7.405E-04	8.473E-04
2.00E 00--2.50E 00	9.922E-06	1.750E-05	3.854E-05	8.716E-05	1.807E-04	3.322E-04	5.314E-04	7.155E-04	9.851E-04
1.66E 00--2.00E 00	1.173E-05	2.354E-05	5.651E-05	1.231E-04	2.315E-04	3.796E-04	5.469E-04	6.835E-04	9.851E-04
1.33E 00--1.66E 00	1.713E-05	3.791E-05	8.752E-05	1.739E-04	2.935E-04	4.304E-04	5.587E-04	6.478E-04	1.175E-03
1.00E 00--1.33E 00	3.669E-05	7.793E-05	1.521E-04	2.573E-04	3.776E-04	4.878E-04	5.659E-04	6.049E-04	1.507E-03
8.00E 00--1.00E 01	8.380E-05	1.540E-04	2.482E-04	3.545E-04	4.541E-04	5.288E-04	5.702E-04	5.845E-04	1.973E-03
6.00E 00--8.00E-01	1.828E-04	2.783E-04	4.541E-04	4.545E-04	5.165E-04	5.605E-04	5.931E-04	6.145E-04	2.693E-03
4.00E 00--6.00E-01	5.579E-04	6.521E-04	7.280E-04	7.891E-04	8.465E-04	9.111E-04	9.805E-04	1.035E-03	6.371E-03
3.00E 00--4.00E-01	7.504E-04	7.802E-04	8.222E-04	8.849E-04	9.605E-04	1.031E-03	1.080E-03	1.103E-03	8.689E-03
2.00E 00--3.00E-01	1.174E-03	1.224E-03	1.288E-03	1.358E-03	1.431E-03	1.502E-03	1.563E-03	1.603E-03	1.568E-02
1.00E 00--2.00E-01	3.900E-03	4.112E-03	4.340E-03	4.574E-03	4.802E-03	5.006E-03	5.166E-03	5.263E-03	4.918E-02
5.00E 00--1.00E-01	1.132E-02	1.180E-02	1.229E-02	1.278E-02	1.325E-02	1.365E-02	1.396E-02	1.414E-02	1.420E-01
2.00E 00--5.00E-02	3.084E-03	3.137E-03	3.191E-03	3.242E-03	3.289E-03	3.328E-03	3.357E-03	3.374E-03	3.862E-02

## 4 PI R\*2 FLUENCE AT 1800.0 METERS

## 1.108 TO 2.35 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	3.050E-08	4.537E-08	9.103E-08	1.481E-07	1.808E-07	1.771E-07	1.644E-07	1.821E-07	2.581E-07
6.50E 00--8.00E 00	-7.757E-08	-1.934E-08	1.353E-07	3.514E-07	4.307E-07	3.936E-07	3.099E-07	3.036E-07	4.929E-07
5.00E 00--6.50E 00	6.913E-07	1.051E-06	2.173E-06	3.545E-06	4.272E-06	4.108E-06	3.721E-06	4.099E-06	5.873E-06
4.00E 00--5.00E 00	-2.924E-06	-2.261E-06	-1.778E-07	2.435E-06	2.725E-06	2.276E-06	1.130E-06	8.546E-06	1.346E-06
3.00E 00--4.00E 00	-1.938E-06	-1.938E-06	3.524E-07	2.435E-06	2.912E-06	2.076E-06	1.045E-06	1.114E-06	3.081E-06
2.50E 00--3.00E 00	-1.288E-06	-9.736E-07	6.775E-07	1.125E-06	1.125E-06	4.007E-07	3.551E-06	3.848E-07	1.499E-06
2.00E 00--2.50E 00	1.514E-06	1.363E-06	7.522E-07	1.083E-07	-1.407E-07	1.345E-07	8.903E-07	1.758E-06	2.197E-06
1.66E 00--2.00E 00	4.528E-06	3.896E-06	1.443E-06	6.749E-07	-1.205E-06	3.654E-08	1.869E-06	3.164E-06	2.973E-06
1.33E 00--1.66E 00	6.304E-06	5.360E-06	1.784E-06	-1.166E-06	-1.648E-06	6.067E-08	4.309E-06	4.102E-06	3.181E-06
1.00E 00--1.33E 00	4.123E-06	3.486E-06	1.176E-06	-4.584E-07	-2.255E-07	1.257E-06	3.399E-06	4.102E-06	5.202E-06
8.00E-01--1.00E 00	-2.828E-06	-2.234E-06	-1.938E-07	1.826E-06	3.702E-06	3.256E-06	2.643E-06	4.643E-06	1.460E-05
6.00E-01--8.00E-01	-6.639E-06	-5.037E-06	9.065E-08	4.525E-06	7.278E-06	5.752E-06	7.593E-06	1.940E-05	4.803E-05
4.00E-01--6.00E-01	5.426E-05	5.400E-05	5.365E-05	5.585E-05	6.495E-05	8.526E-05	1.197E-04	1.674E-04	2.332E-04
3.00E-01--4.00E-01	7.236E-05	7.618E-05	9.304E-05	1.259E-04	1.736E-04	2.311E-04	2.874E-04	3.319E-04	3.582E-04
2.00E-01--3.00E-01	6.175E-04	6.173E-04	6.157E-04	6.104E-04	5.992E-04	5.831E-04	5.661E-04	5.547E-04	5.544E-04
1.00E-01--2.00E-01	1.481E-03	1.485E-03	1.493E-03	1.525E-03	1.561E-03	1.608E-03	1.667E-03	1.737E-03	1.819E-03
5.00E-02--1.00E-01	4.578E-03	4.585E-03	4.618E-03	4.677E-03	4.763E-03	4.876E-03	5.016E-03	5.194E-03	5.376E-03
2.00E-02--5.00E-02	1.399E-03	1.400E-03	1.404E-03	1.412E-03	1.423E-03	1.438E-03	1.455E-03	1.476E-03	1.499E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	4.025E-07	6.140E-07	9.633E-07	1.807E-06	4.331E-06	1.192E-05	3.205E-05	6.961E-05	3.997E-05
6.50E 00--8.00E 00	8.654E-07	1.328E-06	1.938E-06	3.436E-06	8.284E-06	2.291E-05	5.999E-05	1.256E-04	7.516E-05
5.00E 00--6.50E 00	9.080E-06	1.331E-05	1.953E-05	3.381E-05	7.554E-05	1.934E-04	4.803E-04	9.742E-04	6.334E-04
4.00E 00--5.00E 00	4.106E-06	6.293E-06	7.431E-06	1.249E-05	3.724E-05	1.120E-04	2.739E-04	5.62E-04	3.270E-04
3.00E 00--4.00E 00	5.938E-06	8.432E-06	1.139E-05	2.224E-05	5.936E-05	1.534E-04	3.340E-04	5.704E-04	4.278E-04
2.50E 00--3.00E 00	2.988E-06	4.473E-06	8.511E-06	2.357E-05	6.553E-05	1.547E-04	3.001E-04	4.611E-04	3.835E-04
2.00E 00--2.50E 00	2.374E-06	4.293E-06	1.310E-05	3.776E-05	9.015E-05	1.813E-04	3.076E-04	4.317E-04	4.361E-04
1.66E 00--2.00E 00	2.199E-06	5.886E-06	2.234E-05	5.901E-05	1.215E-04	2.092E-04	3.108E-04	3.964E-04	5.071E-04
1.33E 00--1.66E 00	3.324E-06	1.243E-05	3.933E-05	8.901E-05	1.586E-04	2.374E-04	3.095E-04	3.584E-04	6.038E-04
1.00E 00--1.33E 00	1.239E-05	3.566E-05	7.600E-05	1.371E-04	2.058E-04	2.651E-04	3.017E-04	3.154E-04	7.100E-04
8.00E-01--1.00E 00	3.776E-05	7.704E-05	1.304E-04	1.899E-04	2.431E-04	2.788E-04	2.932E-04	2.933E-04	1.004E-03
6.00E-01--8.00E-01	9.278E-05	1.466E-04	1.984E-04	2.392E-04	2.664E-04	2.841E-04	2.976E-04	3.076E-04	1.362E-03
4.00E-01--6.00E-01	2.786E-04	3.250E-04	3.584E-04	3.817E-04	4.035E-04	4.320E-04	4.667E-04	4.955E-04	3.065E-03
3.00E-01--4.00E-01	3.698E-04	3.778E-04	3.944E-04	4.245E-04	4.622E-04	4.955E-04	5.151E-04	5.218E-04	4.231E-03
2.00E-01--3.00E-01	5.669E-04	5.902E-04	6.198E-04	6.519E-04	6.846E-04	7.169E-04	7.459E-04	7.657E-04	7.637E-03
1.00E-01--2.00E-01	1.911E-03	2.014E-03	2.125E-03	2.238E-03	2.348E-03	2.446E-03	2.523E-03	2.570E-03	2.409E-02
5.00E-02--1.00E-01	5.591E-03	5.824E-03	6.067E-03	6.310E-03	6.538E-03	6.737E-03	6.889E-03	6.979E-03	7.013E-02
2.00E-02--5.00E-02	1.524E-03	1.550E-03	1.576E-03	1.602E-03	1.624E-03	1.644E-03	1.658E-03	1.666E-03	1.908E-02

1.108 TO 2.350 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON JOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.064E-10	1.299E-10	1.635E-10	1.812E-10	1.859E-10
-9.89401E-01	1.067E-10	1.302E-10	1.639E-10	1.817E-10	1.864E-10
-9.44575E-01	1.071E-10	1.314E-10	1.656E-10	1.837E-10	1.886E-10
-8.65631E-01	1.096E-10	1.340E-10	1.690E-10	1.877E-10	1.929E-10
-7.55044E-01	1.129E-10	1.381E-10	1.745E-10	1.940E-10	1.996E-10
-6.17876E-01	1.178E-10	1.443E-10	1.875E-10	2.032E-10	2.091E-10
-4.58017E-01	1.249E-10	1.530E-10	1.937E-10	2.157E-10	2.221E-10
-2.81605E-02	1.348E-10	1.651E-10	2.090E-10	2.327E-10	2.396E-10
-9.50125E-02	1.483E-10	1.817E-10	2.295E-10	2.553E-10	2.626E-10
9.50125E-02	1.953E-10	2.290E-10	2.649E-10	2.812E-10	2.885E-10
2.81605E-01	1.880E-10	2.410E-10	2.960E-10	3.299E-10	3.379E-10
4.58017E-01	2.225E-10	2.848E-10	3.449E-10	3.799E-10	3.866E-10
6.17876E-01	3.052E-10	3.518E-10	4.274E-10	4.650E-10	4.722E-10
7.55044E-01	4.467E-10	4.758E-10	5.28E-10	5.830E-10	5.799E-10
8.65631E-01	8.216E-10	6.971E-10	7.820E-10	7.858E-10	7.652E-10
9.44575E-01	2.054E-09	1.726E-09	1.991E-09	1.264E-09	1.145E-09
9.89401E-01	7.792E-09	7.662E-09	6.359E-09	4.989E-09	3.854E-09
TOTAL	4.734E-09	4.920E-09	5.161E-09	5.184E-09	4.998E-09
					4.673E-09
					3.787E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.219E-10	8.976E-11	2.833E-11	7.227E-12	1.626E-12
-9.89401E-01	1.223E-10	9.004E-11	2.842E-11	7.250E-12	1.631E-12
-9.44575E-01	1.239E-10	9.122E-11	2.880E-11	7.349E-12	1.654E-12
-8.65631E-01	1.270E-10	9.350E-11	2.953E-11	7.535E-12	1.695E-12
-7.55044E-01	1.318E-10	9.692E-11	3.061E-11	7.812E-12	1.758E-12
-6.17876E-01	1.380E-10	1.017E-10	3.212E-11	8.194E-12	1.843E-12
-4.58017E-01	1.467E-10	1.081E-10	3.411E-11	8.697E-12	1.956E-12
-2.81605E-01	1.581E-10	1.164E-10	3.668E-11	9.344E-12	2.099E-12
-9.50125E-02	1.727E-10	1.270E-10	3.995E-11	1.016E-11	2.280E-12
9.50125E-02	1.917E-10	1.407E-10	4.408E-11	1.118E-11	2.504E-12
2.81605E-01	2.161E-10	1.582E-10	4.927E-11	1.245E-11	2.781E-12
4.58017E-01	2.479E-10	1.807E-10	5.575E-11	1.402E-11	3.121E-12
6.17876E-01	2.899E-10	2.100E-10	6.399E-11	1.596E-11	3.533E-12
7.55044E-01	3.467E-10	2.487E-10	7.433E-11	1.832E-11	4.027E-12
8.65631E-01	4.268E-10	3.016E-10	8.751E-11	2.120E-11	4.609E-12
9.44575E-01	5.551E-10	3.813E-10	1.049E-10	2.471E-11	5.280E-12
9.89401E-01	1.069E-09	6.467E-10	1.429E-10	3.046E-11	6.181E-12
TOTAL	2.859E-09	2.051E-09	6.182E-10	1.539E-10	3.409E-11
					6.985E-12

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON) 1.108 TO 2.350 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.791E-10	2.237E-10	2.944E-10	3.405E-10	3.637E-10
-9.89401E-01	1.794E-10	2.242E-10	2.951E-10	3.412E-10	3.646E-10
-9.44575E-01	1.809E-10	2.261E-10	2.979E-10	3.442E-10	3.682E-10
-8.65631E-01	1.841E-10	2.302E-10	3.032E-10	3.513E-10	3.756E-10
-7.55044E-01	1.892E-10	2.367E-10	3.123E-10	3.617E-10	3.867E-10
-6.17876E-01	1.968E-10	2.464E-10	3.251E-10	3.766E-10	4.026E-10
-4.58017E-01	2.077E-10	2.600E-10	3.429E-10	3.969E-10	4.241E-10
-2.81605E-01	2.229E-10	2.788E-10	3.670E-10	4.242E-10	4.527E-10
-9.50125E-02	2.437E-10	3.044E-10	3.993E-10	4.603E-10	4.901E-10
9.50125E-02	3.188E-10	3.752E-10	4.513E-10	5.034E-10	5.346E-10
2.81605E-01	3.052E-10	3.968E-10	5.053E-10	5.765E-10	6.086E-10
4.58017E-01	3.581E-10	4.607E-10	5.763E-10	6.575E-10	6.888E-10
6.17876E-01	4.779E-10	5.656E-10	7.078E-10	7.876E-10	8.165E-10
7.55044E-01	6.849E-10	7.482E-10	8.538E-10	9.697E-10	9.882E-10
8.65631E-01	1.233E-09	1.075E-09	1.212E-09	1.276E-09	1.269E-09
9.44575E-01	3.039E-09	2.578E-09	2.133E-09	1.987E-09	1.839E-09
9.89401E-01	1.127E-08	1.113E-08	9.292E-09	7.352E-09	5.742E-09
TOTAL	7.256E-09	7.698E-09	8.398E-09	8.750E-09	8.731E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	2.822E-10	2.191E-10	7.608E-11	2.164E-11	5.156E-12
-9.89401E-01	2.829E-10	2.196E-10	7.827E-11	2.169E-11	5.171E-12
-9.44575E-01	2.859E-10	2.219E-10	7.908E-11	2.191E-11	5.223E-12
-8.65631E-01	2.916E-10	2.263E-10	8.062E-11	2.233E-11	5.321E-12
-7.55044E-01	3.002E-10	2.329E-10	8.287E-11	2.294E-11	5.465E-12
-6.17876E-01	3.120E-10	2.419E-10	8.596E-11	2.377E-11	5.666E-12
-4.58017E-01	3.276E-10	2.537E-10	8.996E-11	2.484E-11	5.909E-12
-2.81605E-01	3.478E-10	2.689E-10	9.503E-11	2.619E-11	6.222E-12
-9.50125E-02	3.735E-10	2.881E-10	1.013E-10	2.785E-11	6.603E-12
9.50125E-02	4.060E-10	3.122E-10	1.091E-10	2.986E-11	7.063E-12
2.81605E-01	4.474E-10	3.425E-10	1.186E-10	3.229E-11	7.612E-12
4.58017E-01	5.022E-10	3.866E-10	1.302E-10	3.521E-11	8.262E-12
6.17876E-01	5.687E-10	4.291E-10	1.444E-10	3.869E-11	9.025E-12
7.55044E-01	6.594E-10	4.919E-10	1.618E-10	4.280E-11	9.906E-12
8.65631E-01	7.852E-10	5.758E-10	1.834E-10	4.765E-11	1.091E-11
9.44575E-01	9.615E-10	6.987E-10	2.110E-10	5.332E-11	1.201E-11
9.89401E-01	1.726E-09	1.084E-09	2.669E-10	6.195E-11	1.339E-11
TOTAL	5.782E-09	4.351E-09	1.468E-09	3.954E-10	9.265E-11

1.978E-11

9.265E-11

## 1.108 TO 2.350 MEV NEUTRON SOURCE

4 PI R\*2 TISSUE KERMA (NEUTRONS)  
(CM\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.123E-08	1.385E-08	1.775E-08	1.997E-08	2.077E-08
-9.89401E-01	1.125E-08	1.388E-08	1.779E-08	2.002E-08	2.083E-08
-9.44575E-01	1.135E-08	1.400E-08	1.797E-08	2.024E-08	2.106E-08
-8.65631E-01	1.155E-08	1.427E-08	1.833E-08	2.067E-08	2.153E-08
-7.55044E-01	1.189E-08	1.470E-08	1.891E-08	2.134E-08	2.224E-08
-6.17876E-01	1.240E-08	1.533E-08	1.974E-08	2.230E-08	2.325E-08
-4.58017E-01	1.312E-08	1.623E-08	2.090E-08	2.361E-08	2.463E-08
-2.81605E-01	1.412E-08	1.747E-08	2.248E-08	2.538E-08	2.646E-08
-9.50125E-02	1.550E-08	1.916E-08	2.459E-08	2.773E-08	2.888E-08
9.50125E-02	2.032E-08	2.389E-08	2.815E-08	3.047E-08	3.164E-08
2.81605E-01	1.954E-08	2.521E-08	3.147E-08	3.540E-08	3.666E-08
4.58017E-01	2.303E-08	2.958E-08	3.635E-08	4.061E-08	4.178E-08
6.17876E-01	3.126E-08	3.643E-08	4.244E-08	4.929E-08	5.028E-08
7.55044E-01	4.540E-08	4.884E-08	5.740E-08	6.127E-08	6.153E-08
8.65631E-01	8.279E-08	7.096E-08	7.856E-08	8.172E-08	8.026E-08
9.44575E-01	2.054E-07	1.735E-07	1.413E-07	1.297E-07	1.185E-07
9.89401E-01	7.746E-07	7.626E-07	6.347E-07	4.997E-07	3.878E-07
TOTAL	4.808E-07	5.041E-07	5.375E-07	5.478E-07	5.349E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.431E-08	1.066E-08	3.479E-09	9.066E-10	2.068E-10
-9.89401E-01	1.435E-08	1.072E-08	3.489E-09	9.087E-10	2.074E-10
-9.44575E-01	1.453E-08	1.085E-08	3.533E-09	9.203E-10	2.101E-10
-8.65631E-01	1.487E-08	1.111E-08	3.618E-09	9.422E-10	2.150E-10
-7.55044E-01	1.538E-08	1.149E-08	3.742E-09	9.746E-10	2.224E-10
-6.17876E-01	1.610E-08	1.202E-08	3.915E-09	1.019E-09	2.325E-10
-4.58017E-01	1.705E-08	1.273E-08	4.141E-09	1.077E-09	2.457E-10
-2.81605E-01	1.828E-08	1.364E-08	4.432E-09	1.152E-09	2.624E-10
-9.50125E-02	1.987E-08	1.481E-08	4.798E-09	1.243E-09	2.832E-10
9.50125E-02	2.191E-08	1.630E-08	5.257E-09	1.360E-09	3.089E-10
2.81605E-01	2.452E-08	1.818E-08	5.828E-09	1.502E-09	3.402E-10
4.58017E-01	2.789E-08	2.059E-08	6.538E-09	1.676E-09	3.782E-10
6.17876E-01	3.229E-08	2.368E-08	7.421E-09	1.887E-09	4.237E-10
7.55044E-01	3.819E-08	2.772E-08	8.520E-09	2.142E-09	4.774E-10
8.65631E-01	4.643E-08	3.320E-08	9.902E-09	2.447E-09	5.398E-10
9.44575E-01	5.947E-08	4.133E-08	1.170E-08	2.814E-09	6.103E-10
9.89401E-01	1.108E-07	6.784E-08	1.552E-08	3.396E-09	7.024E-10
TOTAL	3.210E-07	2.335E-07	7.264E-08	1.846E-08	4.152E-09

TOTAL

TOTAL

4 PI R\*\*2 MID-PHANTOM COSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

1.178 TO 2.350 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.C	100.C	150.C	200.C	400.C
-1.0000E-01	2.075E-11	2.625E-11	3.551E-11	4.220E-11	4.802E-11
-9.89401E-01	2.080E-11	2.631E-11	3.559E-11	4.230E-11	4.813E-11
-9.44575E-01	2.098E-11	2.654E-11	3.592E-11	4.270E-11	4.859E-11
-8.65631E-01	2.137E-11	2.704E-11	3.660E-11	4.350E-11	4.950E-11
-7.55044E-01	2.202E-11	2.785E-11	3.767E-11	4.476E-11	5.087E-11
-6.17876E-01	2.299E-11	2.906E-11	3.924E-11	4.656E-11	5.281E-11
-4.58017E-01	2.439E-11	3.077E-11	4.143E-11	4.904E-11	5.543E-11
-2.81605E-01	2.635E-11	3.316E-11	4.441E-11	5.238E-11	5.887E-11
-9.50125E-02	2.906E-11	3.644E-11	4.845E-11	5.681E-11	6.336E-11
9.50125E-02	3.729E-11	4.620E-11	5.652E-11	6.128E-11	6.962E-11
2.81605E-01	3.672E-11	4.780E-11	6.075E-11	7.201E-11	7.657E-11
4.58017E-01	4.355E-11	5.792E-11	7.223E-11	8.092E-11	8.753E-11
6.17876E-01	6.340E-11	7.061E-11	8.688E-11	9.884E-11	1.014E-10
7.55044E-01	9.657E-11	9.882E-11	1.144E-10	1.220E-10	1.226E-10
8.65631E-01	1.836E-10	1.484E-10	1.577E-10	1.645E-10	1.550E-10
9.44575E-01	4.630E-10	3.874E-10	3.031E-10	2.708E-10	2.218E-10
9.89401E-01	1.877E-09	1.831E-09	1.511E-09	1.181E-09	7.001E-10
TOTAL	1.033E-09	1.062E-09	1.117E-09	1.144E-09	1.102E-09

COSINE	RANGE (METERS)				
	500.C	600.C	900.C	1200.C	1800.C
-1.0000E-01	3.945E-11	3.163E-11	1.192E-11	3.417E-12	1.823E-13
-9.89401E-01	3.974E-11	3.170E-11	1.195E-11	3.424E-12	1.827E-13
-9.44575E-01	4.012E-11	3.199E-11	1.206E-11	3.455E-12	1.843E-13
-8.65631E-01	4.084E-11	3.256E-11	1.227E-11	3.513E-12	1.874E-13
-7.55044E-01	4.190E-11	3.335E-11	1.257E-11	3.598E-12	1.918E-13
-6.17876E-01	4.338E-11	3.454E-11	1.298E-11	3.712E-12	1.977E-13
-4.58017E-01	4.532E-11	3.603E-11	1.350E-11	3.857E-12	2.052E-13
-2.81605E-01	4.781E-11	3.793E-11	1.416E-11	4.037E-12	2.144E-13
-9.50125E-02	5.095E-11	4.030E-11	1.497E-11	4.255E-12	2.253E-13
9.50125E-02	5.493E-11	4.327E-11	1.595E-11	4.516E-12	2.383E-13
2.81605E-01	5.995E-11	4.696E-11	1.713E-11	4.826E-12	2.533E-13
4.58017E-01	6.639E-11	5.160E-11	1.856E-11	5.191E-12	2.706E-13
6.17876E-01	7.479E-11	5.753E-11	2.030E-11	5.621E-12	2.902E-13
7.55044E-01	8.612E-11	6.530E-11	2.244E-11	6.127E-12	3.121E-13
8.65631E-01	1.023E-10	7.599E-11	2.513E-11	6.728E-12	3.364E-13
9.44575E-01	1.292E-10	9.263E-11	2.877E-11	7.465E-12	3.629E-13
9.89401E-01	2.553E-10	1.575E-10	3.797E-11	8.838E-12	3.966E-13
TOTAL	7.819E-10	5.958E-10	2.123E-10	5.910E-11	3.073E-12



4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 1.108 TO 2.350 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)									
	75.0	100.0	150.0	200.0	250.0	300.0	400.0			
-1.00000E 00	1.355E-09	1.663E-09	2.113E-09	2.36CE-09	2.437E-09	2.390E-09	2.070E-09			
-9.89401E-01	1.358E-09	1.667E-09	2.119E-09	2.366E-09	2.444E-09	2.397E-09	2.076E-09			
-9.44575E-01	1.369E-09	1.682E-09	2.140E-09	2.392E-09	2.471E-09	2.425E-09	2.101E-09			
-8.65631E-01	1.394E-09	1.714E-09	2.184E-09	2.443E-09	2.527E-09	2.48CE-09	2.151E-09			
-7.55044E-01	1.435E-09	1.765E-09	2.253E-09	2.523E-09	2.612E-09	2.565E-09	2.226E-09			
-6.17876E-01	1.495E-09	1.842E-09	2.353E-09	2.639E-09	2.733E-09	2.686E-09	2.332E-09			
-4.58017E-01	1.582E-09	1.950E-09	2.493E-09	2.797E-09	2.898E-09	2.849E-09	2.475E-09			
-2.81605E-01	1.702E-09	2.099E-09	2.682E-09	3.010E-09	3.118E-09	3.065E-09	2.662E-09			
-9.50125E-02	1.868E-09	2.302E-09	2.937E-09	3.292E-09	3.409E-09	3.349E-09	2.905E-09			
9.50125E-02	2.466E-09	2.862E-09	3.350E-09	3.631E-09	3.750E-09	3.731E-09	3.218E-09			
2.81605E-01	2.358E-09	3.037E-09	3.777E-09	4.209E-09	4.338E-09	4.202E-09	3.629E-09			
4.58017E-01	2.778E-09	3.549E-09	4.343E-09	4.850E-09	4.969E-09	4.874E-09	4.164E-09			
6.17876E-01	3.747E-09	4.386E-09	5.387E-09	5.885E-09	5.982E-09	5.761E-09	4.84E-09			
7.55044E-01	5.421E-09	5.856E-09	6.875E-09	7.336E-09	7.347E-09	7.053E-09	5.870E-09			
8.65631E-01	9.846E-09	8.482E-09	9.424E-09	9.783E-09	9.591E-09	9.006E-09	7.310E-09			
9.44575E-01	2.433E-08	2.060E-08	1.685E-08	1.50CE-08	1.417E-08	1.275E-08	9.760E-09			
9.89401E-01	9.107E-08	8.977E-08	7.482E-08	5.898E-08	4.582E-08	3.558E-08	2.151E-08			
TOTAL	5.729E-08	6.012E-08	6.408E-08	6.516E-08	6.341E-08	5.973E-08	4.900E-08			

COSINE	RANGE (METERS)					RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0	1800.0				
-1.00000E 00	1.632E-09	1.209E-09	3.861E-10	9.93CE-11	2.247E-11	4.671E-12				
-9.89401E-01	1.637E-09	1.212E-09	3.873E-10	9.961E-11	2.254E-11	4.685E-12				
-9.44575E-01	1.658E-09	1.228E-09	3.924E-10	1.009E-10	2.284E-11	4.748E-12				
-8.65631E-01	1.698E-09	1.258E-09	4.021E-10	1.034E-10	2.340E-11	4.865E-12				
-7.55044E-01	1.758E-09	1.303E-09	4.165E-10	1.071E-10	2.424E-11	5.039E-12				
-6.17876E-01	1.842E-09	1.365E-09	4.365E-10	1.123E-10	2.539E-11	5.277E-12				
-4.58017E-01	1.955E-09	1.448E-09	4.628E-10	1.189E-10	2.689E-11	5.588E-12				
-2.81605E-01	2.102E-09	1.556E-09	4.967E-10	1.275E-10	2.881E-11	5.984E-12				
-9.50125E-02	2.291E-09	1.695E-09	5.397E-10	1.383E-10	3.122E-11	6.477E-12				
9.50125E-02	2.534E-09	1.871E-09	5.937E-10	1.518E-10	3.420E-11	7.086E-12				
2.81605E-01	2.846E-09	2.066E-09	6.612E-10	1.685E-10	3.786E-11	7.830E-12				
4.58017E-01	3.251E-09	2.384E-09	7.457E-10	1.890E-10	4.232E-11	8.731E-12				
6.17876E-01	3.781E-09	2.756E-09	8.513E-10	2.141E-10	4.770E-11	9.807E-12				
7.55044E-01	4.491E-09	3.243E-09	9.832E-10	2.446E-10	5.410E-11	1.107E-11				
8.65631E-01	5.485E-09	3.903E-09	1.150E-09	2.814E-10	6.158E-11	1.251E-11				
9.44575E-01	7.051E-09	4.881E-09	1.366E-09	3.254E-10	7.006E-11	1.408E-11				
9.89401E-01	1.310E-08	8.010E-09	1.819E-09	3.946E-10	8.101E-11	1.585E-11				
TOTAL	3.735E-08	2.699E-08	8.261E-09	2.076E-09	4.628E-10	9.526E-11				

4 PL R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

1.108 TO 2.350 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-00	1.064E-09	1.211E-09	1.692E-09	1.937E-09	2.061E-09	2.089E-09	1.938E-09
-9.89401E-01	1.064E-09	1.313E-09	1.696E-09	1.942E-09	2.066E-09	2.094E-09	1.943E-09
-9.44575E-01	1.064E-09	1.325E-09	1.713E-09	1.962E-09	2.088E-09	2.116E-09	1.963E-09
-8.65631E-01	1.096E-09	1.351E-09	1.747E-09	2.002E-09	2.131E-09	2.160E-09	2.003E-09
-7.55044E-01	1.130E-09	1.393E-09	1.802E-09	2.065E-09	2.197E-09	2.226E-09	2.052E-09
-6.17876E-01	1.181E-09	1.455E-09	1.882E-09	2.155E-09	2.291E-09	2.319E-09	2.145E-09
-4.58017E-01	1.253E-09	1.544E-09	1.994E-09	2.280E-09	2.420E-09	2.446E-09	2.256E-09
-2.81605E-01	1.354E-09	1.667E-09	2.146E-09	2.448E-09	2.593E-09	2.615E-09	2.402E-09
-9.50125E-02	1.494E-09	1.836E-09	2.352E-09	2.672E-09	2.821E-09	2.836E-09	2.591E-09
9.50125E-02	1.921E-09	2.368E-09	2.761E-09	2.900E-09	3.043E-09	3.148E-09	2.833E-09
2.81605E-01	1.888E-09	2.420E-09	2.983E-09	3.442E-09	3.594E-09	3.696E-09	3.156E-09
4.58017E-01	2.248E-09	2.919E-09	3.533E-09	3.898E-09	4.030E-09	4.046E-09	3.573E-09
6.17876E-01	3.149E-09	3.561E-09	4.329E-09	4.804E-09	4.911E-09	4.743E-09	4.143E-09
7.55044E-01	4.661E-09	4.893E-09	5.692E-09	5.974E-09	5.989E-09	5.809E-09	4.932E-09
8.65631E-01	8.696E-09	7.273E-09	7.816E-09	8.096E-09	7.917E-09	7.428E-09	6.111E-09
9.44575E-01	2.223E-08	1.844E-08	1.460E-08	1.314E-08	1.188E-08	1.066E-08	8.183E-09
9.89401E-01	8.547E-08	8.379E-08	6.905E-08	5.384E-08	4.138E-08	3.182E-08	1.897E-08
TOTAL	4.985E-08	5.149E-08	5.374E-08	5.425E-08	5.300E-08	5.048E-08	4.281E-08

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E-00	1.636E-09	1.290E-09	4.812E-10	1.381E-10	3.376E-11	7.424E-12
-9.89401E-01	1.640E-09	1.293E-09	4.823E-10	1.384E-10	3.383E-11	7.440E-12
-9.44575E-01	1.657E-09	1.306E-09	4.870E-10	1.397E-10	3.414E-11	7.507E-12
-8.65631E-01	1.689E-09	1.331E-09	4.957E-10	1.421E-10	3.472E-11	7.632E-12
-7.55044E-01	1.738E-09	1.368E-09	5.066E-10	1.456E-10	3.556E-11	7.814E-12
-6.17876E-01	1.805E-09	1.419E-09	5.261E-10	1.504E-10	3.669E-11	8.058E-12
-4.58017E-01	1.894E-09	1.486E-09	5.489E-10	1.566E-10	3.814E-11	8.368E-12
-2.81605E-01	2.010E-09	1.573E-09	5.777E-10	1.643E-10	3.994E-11	8.753E-12
-9.50125E-02	2.158E-09	1.683E-09	6.135E-10	1.737E-10	4.214E-11	9.218E-12
9.50125E-02	2.348E-09	1.822E-09	6.577E-10	1.852E-10	4.478E-11	9.774E-12
2.81605E-01	2.590E-09	1.998E-09	7.121E-10	1.991E-10	4.792E-11	1.043E-11
4.58017E-01	2.905E-09	2.222E-09	7.790E-10	2.158E-10	5.164E-11	1.120E-11
6.17876E-01	3.320E-09	2.512E-09	8.617E-10	2.358E-10	5.601E-11	1.209E-11
7.55044E-01	3.882E-09	2.894E-09	9.645E-10	2.597E-10	6.109E-11	1.310E-11
8.65631E-01	4.684E-09	3.420E-09	1.095E-09	2.884E-10	6.695E-11	1.424E-11
9.44575E-01	5.988E-09	4.224E-09	1.269E-09	3.233E-10	7.364E-11	1.547E-11
9.89401E-01	1.149E-08	7.045E-09	1.666E-09	3.827E-10	8.287E-11	1.694E-11
TOTAL	3.400E-08	2.567E-08	8.866E-09	2.448E-09	5.854E-10	1.269E-10

4 PI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 1.108 TO 2.350 MEV NEUTRON SOURCE

COSINE	RANGE (METERS) 200.C				
	75.0	100.C	150.C	250.C	300.0
-1.00000E 00	9.290E-11	1.145E-10	1.459E-10	1.628E-10	1.675E-10
-9.89401E-01	9.310E-11	1.147E-10	1.463E-10	1.632E-10	1.680E-10
-9.44575E-01	9.392E-11	1.158E-10	1.478E-10	1.650E-10	1.700E-10
-8.65631E-01	9.565E-11	1.180E-10	1.508E-10	1.687E-10	1.739E-10
-7.55044E-01	9.846E-11	1.216E-10	1.557E-10	1.743E-10	1.799E-10
-6.17876E-01	1.027E-10	1.270E-10	1.627E-10	1.824E-10	1.885E-10
-4.58017E-01	1.087E-10	1.345E-10	1.725E-10	1.936E-10	2.001E-10
-2.81605E-01	1.170E-10	1.448E-10	1.858E-10	2.085E-10	2.157E-10
-9.50125E-02	1.285E-10	1.590E-10	2.036E-10	2.283E-10	2.361E-10
-9.50125E-02	1.688E-10	1.972E-10	2.330E-10	2.517E-10	2.597E-10
-2.81605E-01	1.623E-10	2.095E-10	2.616E-10	2.927E-10	3.015E-10
-4.58017E-01	1.910E-10	2.458E-10	3.020E-10	3.368E-10	3.451E-10
-6.17876E-01	2.655E-10	3.034E-10	3.731E-10	4.092E-10	4.162E-10
-7.55044E-01	3.798E-10	4.072E-10	4.772E-10	5.097E-10	5.108E-10
-8.55631E-01	6.933E-10	5.916E-10	6.545E-10	6.799E-10	6.671E-10
-9.44575E-01	1.707E-09	1.448E-09	1.180E-09	1.082E-09	9.874E-10
-9.89401E-01	6.502E-09	6.397E-09	5.332E-09	4.264E-09	3.264E-09
TOTAL	4.010E-09	4.200E-09	4.472E-09	4.542E-09	4.413E-09

COSINE	RANGE (METERS) 1200.C				
	500.0	600.C	900.0	1500.0	1800.0
-1.00000E 00	1.091E-10	7.981E-11	2.465E-11	6.169E-12	1.366E-12
-9.89401E-01	1.095E-10	8.007E-11	2.474E-11	6.191E-12	1.371E-12
-9.44575E-01	1.109E-10	8.116E-11	2.509E-11	6.281E-12	1.391E-12
-8.65631E-01	1.138E-10	8.327E-11	2.576E-11	6.452E-12	1.430E-12
-7.55044E-01	1.180E-10	8.643E-11	2.677E-11	6.707E-12	1.486E-12
-6.17876E-01	1.240E-10	9.084E-11	2.816E-11	7.060E-12	1.565E-12
-4.58017E-01	1.319E-10	9.670E-11	3.000E-11	7.523E-12	1.668E-12
-2.81605E-01	1.423E-10	1.043E-10	3.238E-11	8.120E-12	1.801E-12
-9.50125E-02	1.557E-10	1.141E-10	3.540E-11	8.875E-12	1.968E-12
-9.50125E-02	1.729E-10	1.266E-10	3.920E-11	9.820E-12	2.176E-12
-2.81605E-01	1.949E-10	1.425E-10	4.398E-11	1.099E-11	2.432E-12
-4.58017E-01	2.234E-10	1.628E-10	4.995E-11	1.244E-11	2.747E-12
-6.17876E-01	2.607E-10	1.891E-10	5.741E-11	1.422E-11	3.127E-12
-7.55044E-01	3.106E-10	2.233E-10	6.672E-11	1.637E-11	3.580E-12
-8.55631E-01	3.801E-10	2.696E-10	7.844E-11	1.897E-11	4.108E-12
-9.44575E-01	4.898E-10	3.382E-10	9.371E-11	2.208E-11	4.708E-12
-9.89401E-01	9.269E-10	5.646E-10	1.265E-10	2.709E-11	5.500E-12
TOTAL	2.560E-09	1.836E-09	5.496E-10	1.354E-10	2.973E-11

3.383E-09

4.148E-09

4.413E-09

4.542E-09

4.472E-09

4.200E-09

6.397E-09

1.180E-09

5.332E-09

4.264E-09

6.799E-10

6.671E-10

4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 1.108 TO 2.350 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.542E-10	1.889E-10	2.384E-10	2.638E-10	2.697E-10
-9.89401E-01	1.546E-10	1.894E-10	2.390E-10	2.645E-10	2.705E-10
-9.44575E-01	1.559E-10	1.911E-10	2.415E-10	2.675E-10	2.737E-10
-8.55631E-01	1.587E-10	1.948E-10	2.465E-10	2.734E-10	2.800E-10
-7.55044E-01	1.633E-10	2.007E-10	2.544E-10	2.826E-10	2.898E-10
-6.17876E-01	1.702E-10	2.094E-10	2.660E-10	2.959E-10	3.037E-10
-4.58017E-01	1.801E-10	2.217E-10	2.820E-10	3.141E-10	3.227E-10
-2.81605E-01	1.938E-10	2.388E-10	3.038E-10	3.386E-10	3.481E-10
-9.50125E-02	2.127E-10	2.620E-10	3.331E-10	3.712E-10	3.816E-10
9.50125E-02	2.829E-10	3.231E-10	3.785E-10	4.113E-10	4.232E-10
2.81605E-01	2.69E-10	3.465E-10	4.310E-10	4.757E-10	4.877E-10
4.58017E-01	3.165E-10	4.035E-10	4.931E-10	5.511E-10	5.624E-10
6.17876E-01	4.272E-10	5.011E-10	6.146E-10	6.683E-10	6.772E-10
7.55044E-01	6.194E-10	6.685E-10	7.819E-10	8.357E-10	8.357E-10
8.55631E-01	1.124E-09	9.662E-10	1.075E-09	1.114E-09	1.091E-09
9.44575E-01	2.751E-09	2.343E-09	1.921E-09	1.768E-09	1.615E-09
9.89401E-01	1.036E-08	1.021E-08	8.532E-09	6.741E-09	5.244E-09
TOTAL	6.521E-09	6.841E-09	7.286E-09	7.388E-09	7.159E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.718E-10	1.248E-10	3.808E-11	9.454E-12	2.082E-12
-9.89401E-01	1.723E-10	1.253E-10	3.821E-11	9.487E-12	2.090E-12
-9.44575E-01	1.746E-10	1.270E-10	3.877E-11	9.628E-12	2.121E-12
-8.55631E-01	1.792E-10	1.305E-10	3.982E-11	9.895E-12	2.181E-12
-7.55044E-01	1.860E-10	1.354E-10	4.140E-11	1.029E-11	2.269E-12
-6.17876E-01	1.955E-10	1.424E-10	4.361E-11	1.085E-11	2.352E-12
-4.58017E-01	2.083E-10	1.518E-10	4.652E-11	1.158E-11	2.553E-12
-2.81605E-01	2.251E-10	1.641E-10	5.039E-11	1.252E-11	2.761E-12
-9.50125E-02	2.467E-10	1.799E-10	5.513E-11	1.372E-11	3.024E-12
9.50125E-02	2.747E-10	2.001E-10	6.123E-11	1.522E-11	3.354E-12
2.81605E-01	3.107E-10	2.260E-10	6.894E-11	1.710E-11	3.763E-12
4.58017E-01	3.574E-10	2.592E-10	7.863E-11	1.944E-11	4.266E-12
6.17876E-01	4.188E-10	3.023E-10	9.081E-11	2.232E-11	4.883E-12
7.55044E-01	5.010E-10	3.587E-10	1.061E-10	2.585E-11	5.620E-12
8.55631E-01	6.154E-10	4.351E-10	1.254E-10	3.011E-11	6.487E-12
9.44575E-01	7.965E-10	5.482E-10	1.506E-10	3.524E-11	7.475E-12
9.89401E-01	1.497E-09	9.115E-10	2.035E-10	4.335E-11	8.766E-12
TOTAL	4.092E-09	2.921E-09	8.643E-10	2.114E-10	4.613E-11

1800.0

1500.0

1200.0

900.0

600.0

500.0

4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CM\*\*2 RAD/STER-DIAN/SOURCE NEUTRON)

1.108 TO 2.350 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E 00	1.991E-13	3.325E-13	6.510E-13	9.907E-13	1.306E-12	1.566E-12
-9.89401E-01	1.994E-13	3.330E-13	6.525E-13	9.936E-13	1.310E-12	1.572E-12
-9.44575E-01	1.994E-13	3.352E-13	6.585E-13	1.005E-12	1.328E-12	1.596E-12
-8.65631E-01	2.024E-13	3.394E-13	6.702E-13	1.028E-12	1.363E-12	1.643E-12
-7.55044E-01	2.052E-13	3.456E-13	6.875E-13	1.061E-12	1.415E-12	1.714E-12
-6.17876E-01	2.089E-13	3.537E-13	7.104E-13	1.105E-12	1.485E-12	1.809E-12
-4.58017E-01	2.134E-13	3.636E-13	7.386E-13	1.161E-12	1.574E-12	1.934E-12
-2.81605E-01	2.185E-13	3.751E-13	7.723E-13	1.229E-12	1.684E-12	2.090E-12
-9.50125E-02	2.242E-13	3.886E-13	8.112E-13	1.309E-12	1.818E-12	2.283E-12
9.50125E-02	2.303E-13	4.020E-13	8.547E-13	1.401E-12	1.975E-12	2.517E-12
2.81605E-01	2.366E-13	4.165E-13	9.014E-13	1.504E-12	2.157E-12	2.792E-12
4.58017E-01	2.428E-13	4.311E-13	9.502E-13	1.615E-12	2.357E-12	3.107E-12
6.17876E-01	2.485E-13	4.455E-13	9.990E-13	1.729E-12	2.571E-12	3.454E-12
7.55044E-01	2.536E-13	4.581E-13	1.044E-12	1.839E-12	2.785E-12	3.813E-12
8.65631E-01	2.581E-13	4.684E-13	1.083E-12	1.936E-12	2.982E-12	4.154E-12
9.44575E-01	2.611E-13	4.766E-13	1.112E-12	2.012E-12	3.138E-12	4.434E-12
9.89401E-01	2.610E-13	4.791E-13	1.128E-12	2.055E-12	3.231E-12	4.607E-12
TOTAL	2.872E-12	5.013E-12	1.071E-11	1.772E-11	2.532E-11	3.283E-11

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	1.883E-12	1.705E-12	8.564E-13	3.152E-13	1.012E-13	3.111E-14
-9.89401E-01	1.893E-12	1.715E-12	8.643E-13	3.210E-13	1.055E-13	3.397E-14
-9.44575E-01	1.933E-12	1.755E-12	8.849E-13	3.415E-13	1.183E-13	4.234E-14
-8.65631E-01	2.011E-12	1.833E-12	9.484E-13	3.723E-13	1.371E-13	5.197E-14
-7.55044E-01	2.124E-12	1.948E-12	1.019E-12	4.042E-13	1.503E-13	5.881E-14
-6.17876E-01	2.286E-12	2.107E-12	1.111E-12	4.376E-13	1.583E-13	5.839E-14
-4.58017E-01	2.501E-12	2.323E-12	1.237E-12	4.819E-13	1.682E-13	5.851E-14
-2.81605E-01	2.787E-12	2.616E-12	1.420E-12	5.543E-13	1.909E-13	6.582E-14
-9.50125E-02	3.164E-12	3.014E-12	1.687E-12	6.725E-13	2.364E-13	8.373E-14
9.50125E-02	3.657E-12	3.551E-12	2.078E-12	8.553E-13	3.098E-13	1.133E-13
2.81605E-01	4.297E-12	4.275E-12	2.651E-12	1.134E-12	4.190E-13	1.529E-13
4.58017E-01	5.115E-12	5.244E-12	3.510E-12	1.583E-12	5.976E-13	2.135E-13
6.17876E-01	6.132E-12	6.520E-12	4.822E-12	2.358E-12	9.401E-13	3.423E-13
7.55044E-01	7.337E-12	8.132E-12	6.805E-12	3.743E-12	1.661E-12	6.620E-13
8.65631E-01	8.649E-12	1.001E-11	9.629E-12	6.123E-12	3.136E-12	1.432E-12
9.44575E-01	9.879E-12	1.190E-11	1.311E-11	9.694E-12	5.790E-12	3.061E-12
9.89401E-01	1.073E-11	1.329E-11	1.622E-11	1.356E-11	9.244E-12	5.577E-12
TOTAL	5.281E-11	5.475E-11	4.062E-11	2.200E-11	1.048E-11	4.774E-12

## 1.108 TO 2.350 MEV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	2.036E-11	3.403E-11	6.681E-11	1.02CE-10	1.623E-10
-9.89401E-01	2.038E-11	3.409E-11	6.696E-11	1.023E-10	1.629E-10
-9.44575E-01	2.049E-11	3.431E-11	6.756E-11	1.034E-10	1.653E-10
-8.65631E-01	2.068E-11	3.473E-11	6.873E-11	1.057E-10	1.700E-10
-7.55044E-01	2.097E-11	3.535E-11	7.046E-11	1.090E-10	1.771E-10
-6.17876E-01	2.134E-11	3.615E-11	7.274E-11	1.134E-10	1.867E-10
-4.58017E-01	2.178E-11	3.714E-11	7.557E-11	1.19CE-10	1.991E-10
-2.81605E-01	2.230E-11	3.829E-11	7.894E-11	1.258E-10	2.148E-10
-9.50125E-02	2.287E-11	3.958E-11	8.282E-11	1.338E-10	2.341E-10
9.50125E-02	2.347E-11	4.098E-11	8.717E-11	1.43CE-10	2.574E-10
2.81605E-01	2.410E-11	4.243E-11	9.182E-11	1.53CE-10	2.849E-10
4.58017E-01	2.472E-11	4.388E-11	9.670E-11	1.643E-10	3.163E-10
6.17876E-01	2.529E-11	4.532E-11	1.016E-10	1.757E-10	3.509E-10
7.55044E-01	2.580E-11	4.658E-11	1.061E-10	1.867E-10	3.868E-10
8.65631E-01	2.625E-11	4.761E-11	1.100E-10	1.964E-10	4.207E-10
9.44575E-01	2.654E-11	4.842E-11	1.129E-10	2.039E-10	4.467E-10
9.89401E-01	2.674E-11	4.868E-11	1.144E-10	2.082E-10	4.659E-10
TOTAL	2.927E-10	5.111E-10	1.092E-09	1.808E-09	3.354E-09

4.646E-09

## RANGE (METERS)

## RANGE (METERS)

## COSINE

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.990E-10	1.824E-10	9.669E-11	3.867E-11	1.399E-11
-9.89401E-01	2.000E-10	1.834E-10	9.748E-11	3.924E-11	1.442E-11
-9.44575E-01	2.018E-10	1.875E-10	1.006E-10	4.132E-11	1.57CE-11
-8.65631E-01	2.118E-10	1.954E-10	1.060E-10	4.444E-11	1.760E-11
-7.55044E-01	2.234E-10	2.069E-10	1.132E-10	4.772E-11	1.897E-11
-6.17876E-01	2.395E-10	2.229E-10	1.225E-10	5.120E-11	1.986E-11
-4.58017E-01	2.611E-10	2.446E-10	1.354E-10	5.580E-11	2.096E-11
-2.81605E-01	2.897E-10	2.741E-10	1.538E-10	6.319E-11	2.332E-11
9.50125E-02	3.274E-10	3.139E-10	1.807E-10	7.514E-11	2.794E-11
2.81605E-01	3.767E-10	3.676E-10	2.198E-10	9.348E-11	3.533E-11
4.58017E-01	4.436E-10	4.398E-10	2.770E-10	1.213E-10	4.625E-11
6.17876E-01	5.221E-10	5.365E-10	3.626E-10	1.600E-10	6.393E-11
7.55044E-01	6.235E-10	6.636E-10	4.930E-10	2.429E-10	9.788E-11
8.65631E-01	7.435E-10	8.241E-10	6.501E-10	3.802E-10	1.691E-10
9.44575E-01	8.742E-10	9.709E-10	8.164E-10	5.152E-10	3.152E-10
9.89401E-01	9.969E-10	1.199E-09	1.318E-09	9.717E-10	5.792E-10
TOTAL	1.082E-09	1.338E-09	1.628E-09	1.357E-09	9.242E-10

5.005E-10

## 1.108 TO 2.350 MEV NEUTRON SOURCE

4. PI 2\*\*2 AIR KERMA (GAMMAS)  
(CH\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E 00	2.247E-11	3.784E-11	7.545E-11	1.172E-10	1.941E-10
-9.89401E-01	2.250E-11	3.789E-11	7.560E-11	1.175E-10	1.947E-10
-9.44575E-01	2.260E-11	3.810E-11	7.618E-11	1.186E-10	1.971E-10
-8.65631E-01	2.278E-11	3.851E-11	7.731E-11	1.208E-10	2.018E-10
-7.55044E-01	2.306E-11	3.910E-11	7.897E-11	1.240E-10	2.087E-10
-6.17876E-01	2.341E-11	3.987E-11	8.116E-11	1.282E-10	2.180E-10
-4.58017E-01	2.383E-11	4.081E-11	8.386E-11	1.336E-10	2.301E-10
-2.81603E-01	2.432E-11	4.190E-11	8.707E-11	1.401E-10	2.453E-10
-9.50125E-02	2.486E-11	4.312E-11	9.077E-11	1.478E-10	2.638E-10
9.50125E-02	2.544E-11	4.445E-11	9.490E-11	1.565E-10	2.861E-10
2.81603E-01	2.603E-11	4.582E-11	9.931E-11	1.663E-10	3.122E-10
4.58017E-01	2.662E-11	4.720E-11	1.039E-10	1.767E-10	3.420E-10
6.17876E-01	2.715E-11	4.856E-11	1.085E-10	1.874E-10	3.746E-10
7.55044E-01	2.763E-11	4.975E-11	1.127E-10	1.977E-10	4.082E-10
8.65631E-01	2.806E-11	5.071E-11	1.164E-10	2.068E-10	4.399E-10
9.44575E-01	2.833E-11	5.148E-11	1.191E-10	2.139E-10	4.659E-10
9.89401E-01	2.833E-11	5.172E-11	1.206E-10	2.179E-10	4.819E-10
TOTAL	3.175E-10	5.548E-10	1.188E-09	1.975E-09	3.701E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E 00	2.633E-10	2.563E-10	1.676E-10	8.521E-11	1.767E-11
-9.89401E-01	2.643E-10	2.573E-10	1.685E-10	8.583E-11	1.795E-11
-9.44575E-01	2.684E-10	2.616E-10	1.719E-10	8.810E-11	1.881E-11
-8.65631E-01	2.764E-10	2.698E-10	1.779E-10	9.166E-11	1.989E-11
-7.55044E-01	2.892E-10	2.817E-10	1.859E-10	9.567E-11	2.082E-11
-6.17876E-01	3.044E-10	2.982E-10	1.965E-10	1.002E-10	2.119E-11
-4.58017E-01	3.260E-10	3.204E-10	2.107E-10	1.061E-10	2.172E-11
-2.81603E-01	3.544E-10	3.501E-10	2.306E-10	1.149E-10	2.298E-11
-9.50125E-02	3.914E-10	3.896E-10	2.586E-10	1.283E-10	2.530E-11
9.50125E-02	4.392E-10	4.422E-10	2.984E-10	1.478E-10	2.877E-11
2.81603E-01	5.006E-10	5.121E-10	3.551E-10	1.765E-10	3.326E-11
4.58017E-01	5.781E-10	6.044E-10	4.382E-10	2.208E-10	3.977E-11
6.17876E-01	6.737E-10	7.245E-10	5.624E-10	2.950E-10	5.254E-11
7.55044E-01	7.861E-10	8.747E-10	7.473E-10	4.343E-10	8.262E-11
8.65631E-01	9.078E-10	1.049E-09	1.008E-09	6.434E-10	1.533E-10
9.44575E-01	1.021E-09	1.223E-09	1.327E-09	9.698E-10	3.321E-10
9.89401E-01	1.100E-09	1.351E-09	1.611E-09	1.322E-09	5.742E-10
TOTAL	6.136E-09	6.472E-09	5.068E-09	2.883E-09	1.426E-09

## 1.108 TO 2.350 MEV NEUTRON SOURCE

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STEADY/ SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
000670E 00	2.102E-11	3.515E-11	6.907E-11	1.055E-10	1.397E-10	1.683E-10	2.029E-10
0094C1E-01	2.105E-11	3.521E-11	6.923E-11	1.058E-10	1.402E-10	1.690E-10	2.036E-10
044575E-01	2.115E-11	3.544E-11	6.984E-11	1.070E-10	1.420E-10	1.714E-10	2.073E-10
05631E-01	2.135E-11	3.587E-11	7.103E-11	1.093E-10	1.456E-10	1.763E-10	2.143E-10
055044E-01	2.165E-11	3.650E-11	7.282E-11	1.127E-10	1.509E-10	1.835E-10	2.246E-10
017876E-01	2.202E-11	3.733E-11	7.515E-11	1.172E-10	1.580E-10	1.933E-10	2.385E-10
058017E-01	2.248E-11	3.834E-11	7.808E-11	1.230E-10	1.672E-10	2.061E-10	2.577E-10
0181605E-01	2.301E-11	3.952E-11	8.150E-11	1.299E-10	1.785E-10	2.221E-10	2.821E-10
050125E-02	2.359E-11	4.083E-11	8.547E-11	1.381E-10	1.922E-10	2.419E-10	3.133E-10
050125E-02	2.421E-11	4.237E-11	8.993E-11	1.476E-10	2.083E-10	2.657E-10	3.526E-10
0181605E-01	2.486E-11	4.376E-11	9.470E-11	1.581E-10	2.268E-10	2.939E-10	4.014E-10
058017E-01	2.549E-11	4.525E-11	9.969E-11	1.694E-10	2.473E-10	3.261E-10	4.405E-10
017876E-01	2.607E-11	4.672E-11	1.047E-10	1.810E-10	2.692E-10	3.615E-10	5.298E-10
055044E-01	2.660E-11	4.802E-11	1.093E-10	1.923E-10	2.911E-10	3.983E-10	6.066E-10
055631E-01	2.706E-11	4.907E-11	1.133E-10	2.023E-10	3.112E-10	4.331E-10	6.847E-10
044575E-01	2.736E-11	4.990E-11	1.163E-10	2.100E-10	3.272E-10	4.617E-10	7.531E-10
039401E-01	2.735E-11	5.016E-11	1.178E-10	2.144E-10	3.367E-10	4.794E-10	7.979E-10
TOTAL	3.020E-10	5.272E-10	1.126E-09	1.865E-09	2.668E-09	3.462E-09	4.798E-09

COSINE	RANGE ( METERS)				180C.0	
	500.C	600.C	900.C	120C.C		
00000E-00	2.679E-10	1.914E-10	1.033E-10	4.241E-11	1.585E-11	5.907E-12
00000E-01	2.689E-10	1.924E-10	1.041E-10	4.311E-11	1.629E-11	6.197E-12
00000E-02	2.700E-10	1.935E-10	1.049E-10	4.381E-11	1.761E-11	7.053E-12
00000E-03	2.713E-10	1.946E-10	1.058E-10	4.452E-11	1.905E-11	8.049E-12
00000E-04	2.727E-10	1.958E-10	1.068E-10	4.524E-11	2.094E-11	9.268E-12
00000E-05	2.742E-10	1.971E-10	1.079E-10	4.597E-11	2.348E-11	1.076E-11
00000E-06	2.758E-10	1.985E-10	1.091E-10	4.672E-11	2.681E-11	1.271E-11
00000E-07	2.775E-10	1.999E-10	1.104E-10	4.749E-11	3.107E-11	1.519E-11
00000E-08	2.793E-10	2.014E-10	1.118E-10	4.828E-11	3.641E-11	1.836E-11
00000E-09	2.812E-10	2.030E-10	1.133E-10	4.909E-11	4.299E-11	2.247E-11
00000E-10	2.832E-10	2.047E-10	1.149E-10	5.000E-11	5.100E-11	2.770E-11
00000E-11	2.853E-10	2.065E-10	1.166E-10	5.100E-11	6.061E-11	3.430E-11
00000E-12	2.875E-10	2.084E-10	1.185E-10	5.210E-11	7.194E-11	4.270E-11
00000E-13	2.898E-10	2.104E-10	1.205E-10	5.330E-11	8.530E-11	5.340E-11
00000E-14	2.922E-10	2.125E-10	1.227E-10	5.460E-11	1.009E-10	6.690E-11
00000E-15	2.947E-10	2.147E-10	1.250E-10	5.600E-11	1.197E-10	8.360E-11
00000E-16	2.973E-10	2.170E-10	1.274E-10	5.750E-11	1.429E-10	1.047E-10
00000E-17	3.000E-10	2.194E-10	1.300E-10	5.910E-11	1.710E-10	1.307E-10
00000E-18	3.028E-10	2.219E-10	1.327E-10	6.080E-11	2.057E-10	1.630E-10
00000E-19	3.057E-10	2.245E-10	1.355E-10	6.260E-11	2.487E-10	2.040E-10
00000E-20	3.087E-10	2.272E-10	1.384E-10	6.450E-11	3.017E-10	2.560E-10
00000E-21	3.118E-10	2.300E-10	1.414E-10	6.650E-11	3.667E-10	3.220E-10
00000E-22	3.150E-10	2.329E-10	1.445E-10	6.860E-11	4.467E-10	4.070E-10
00000E-23	3.183E-10	2.359E-10	1.477E-10	7.080E-11	5.447E-10	5.160E-10
00000E-24	3.217E-10	2.390E-10	1.510E-10	7.310E-11	6.647E-10	6.540E-10
00000E-25	3.252E-10	2.422E-10	1.544E-10	7.560E-11	8.117E-10	8.240E-10
00000E-26	3.288E-10	2.455E-10	1.580E-10	7.780E-11	9.917E-10	1.034E-09
00000E-27	3.325E-10	2.489E-10	1.617E-10	8.020E-11	1.217E-09	1.294E-09
00000E-28	3.363E-10	2.524E-10	1.656E-10	8.240E-11	1.487E-09	1.630E-09
00000E-29	3.402E-10	2.560E-10	1.696E-10	8.470E-11	1.817E-09	2.060E-09
00000E-30	3.442E-10	2.597E-10	1.737E-10	8.710E-11	2.217E-09	2.610E-09
00000E-31	3.483E-10	2.635E-10	1.780E-10	8.960E-11	2.697E-09	3.310E-09
00000E-32	3.525E-10	2.674E-10	1.824E-10	9.220E-11	3.267E-09	4.200E-09
00000E-33	3.568E-10	2.714E-10	1.870E-10	9.490E-11	3.937E-09	5.340E-09
00000E-34	3.612E-10	2.755E-10	1.917E-10	9.770E-11	4.727E-09	6.790E-09
00000E-35	3.657E-10	2.797E-10	1.966E-10	1.006E-10	5.667E-09	8.590E-09
00000E-36	3.703E-10	2.840E-10	2.016E-10	1.036E-10	6.807E-09	1.084E-08
00000E-37	3.750E-10	2.884E-10	2.068E-10	1.067E-10	8.187E-09	1.354E-08
00000E-38	3.798E-10	2.929E-10	2.122E-10	1.099E-10	9.767E-09	1.689E-08
00000E-39	3.847E-10	2.975E-10	2.177E-10	1.132E-09	1.137E-09	2.101E-08
00000E-40	3.897E-10	3.022E-10	2.233E-10	1.167E-09	1.437E-09	2.620E-08
00000E-41	3.948E-10	3.070E-10	2.290E-10	1.204E-09	1.787E-09	3.280E-08
00000E-42	3.999E-10	3.119E-10	2.348E-10	1.243E-09	2.197E-09	4.100E-08
00000E-43	4.051E-10	3.169E-10	2.408E-10	1.283E-09	2.677E-09	5.020E-08
00000E-44	4.104E-10	3.220E-10	2.469E-10	1.324E-09	3.237E-09	6.080E-08
00000E-45	4.158E-10	3.272E-10	2.532E-10	1.366E-09	3.887E-09	7.300E-08
00000E-46	4.213E-10	3.325E-10	2.597E-10	1.409E-09	4.637E-09	8.700E-08
00000E-47	4.269E-10	3.380E-10	2.664E-10	1.454E-09	5.497E-09	1.030E-07
00000E-48	4.326E-10	3.435E-10	2.733E-10	1.500E-09	6.487E-09	1.210E-07
00000E-49	4.384E-10	3.491E-10	2.804E-10	1.547E-09	7.617E-09	1.420E-07
00000E-50	4.443E-10	3.548E-10	2.877E-10	1.595E-09	8.897E-09	1.660E-07
00000E-51	4.503E-10	3.606E-10	2.952E-10	1.644E-09	1.034E-08	1.940E-07
00000E-52	4.564E-10	3.665E-10	3.029E-10	1.694E-09	1.197E-08	2.260E-07
00000E-53	4.626E-10	3.725E-10	3.108E-10	1.745E-09	1.387E-08	2.630E-07
00000E-54	4.689E-10	3.786E-10	3.189E-10	1.797E-09	1.607E-08	3.060E-07
00000E-55	4.753E-10	3.848E-10	3.272E-10	1.850E-09	1.857E-08	3.560E-07
00000E-56	4.818E-10	3.911E-10	3.359E-10	1.905E-09	2.137E-08	4.140E-07
00000E-57	4.884E-10	3.975E-10	3.449E-10	1.961E-09	2.447E-08	4.800E-07
00000E-58	4.951E-10	4.040E-10	3.541E-10	2.018E-09	2.787E-08	5.550E-07
00000E-59	5.019E-10	4.106E-10	3.635E-10	2.076E-09	3.157E-08	6.390E-07
00000E-60	5.088E-10	4.173E-10	3.731E-10	2.135E-09	3.567E-08	7.330E-07
00000E-61	5.158E-10	4.241E-10	3.829E-10	2.195E-09	4.007E-08	8.380E-07
00000E-62	5.229E-10	4.310E-10	3.929E-10	2.256E-09	4.487E-08	9.550E-07
00000E-63	5.301E-10	4.380E-10	4.031E-10	2.318E-09	5.007E-08	1.080E-06
00000E-64	5.374E-10	4.451E-10	4.135E-10	2.381E-09	5.567E-08	1.220E-06
00000E-65	5.448E-10	4.523E-10	4.241E-10	2.445E-09	6.167E-08	1.370E-06
00000E-66	5.523E-10	4.596E-10	4.349E-10	2.510E-09	6.807E-08	1.540E-06
00000E-67	5.600E-10	4.670E-10	4.459E-10	2.576E-09	7.487E-08	1.730E-06
00000E-68	5.678E-10	4.745E-10	4.571E-10	2.643E-09	8.207E-08	1.940E-06
00000E-69	5.757E-10	4.821E-10	4.685E-10	2.711E-09	8.967E-08	2.180E-06
00000E-70	5.837E-10	4.898E-10	4.801E-10	2.780E-09	9.767E-08	2.450E-06
00000E-71	5.918E-10	4.976E-10	4.919E-10	2.850E-09	1.0607E-07	2.760E-06
00000E-72	6.000E-10	5.055E-10	5.039E-10	2.921E-09	1.1497E-07	3.100E-06
00000E-73	6.083E-10	5.135E-10	5.161E-10	3.000E-09	1.2437E-07	3.480E-06
00000E-74	6.168E-10	5.216E-10	5.285E-10	3.080E-09	1.3437E-07	3.900E-06
00000E-75	6.254E-10	5.298E-10	5.411E-10	3.161E-09	1.4497E-07	4.360E-06
00000E-76	6.341E-10	5.381E-10	5.539E-10	3.244E-09	1.5627E-07	4.870E-06
00000E-77	6.430E-10	5.465E-10	5.669E-10	3.329E-09	1.6827E-07	5.430E-06
00000E-78	6.520E-10	5.550E-10	5.801E-10	3.415E-09	1.8097E-07	6.050E-06
00000E-79	6.612E-10	5.636E-10	5.935E-10	3.503E-09	1.9437E-07	6.740E-06
00000E-80	6.706E-10	5.723E-10	6.071E-10	3.593E-09	2.0847E-07	7.500E-06
00000E-81	6.801E-10	5.811E-10	6.209E-10	3.684E-09	2.2327E-07	8.340E-06
00000E-82	6.898E-10	5.900E-10	6.349E-10	3.777E-09	2.3877E-07	9.270E-06
00000E-83	6.996E-10	5.991E-10	6.491E-10	3.871E-09	2.5497E-07	1.030E-05
00000E-84	7.096E-10	6.083E-10	6.635E-10	3.967E-09	2.7187E-07	1.1440E-05
00000E-85	7.197E-10	6.176E-10	6.781E-10	4.064E-09	2.8947E-07	1.2690E-05
00000E-86	7.299E-10	6.270E-10	6.929E-10	4.163E-09	3.0777E-07	1.4060E-05
00000E-87	7.403E-10	6.365E-10	7.079E-10	4.263E-09	3.2687E-07	1.5560E-05
00000E-88	7.508E-10	6.461E-10	7.231E-10	4.364E-09	3.4677E-07	1.7190E-05
00000E-89	7.614E-10	6.558E-10	7.385E-10	4.466E-09	3.6747E-07	1.8960E-05
00000E-90	7.721E-10	6.656E-10	7.541E-10	4.569E-09	3.8897E-07	2.0880E-05
00000E-91	7.830E-10	6.755E-10	7.699E-10	4.673E-09	4.1127E-07	2.2960E-05
00000E-92	7.940E-10	6.855E-10	7.859E-10	4.778E-09	4.3437E-07	2.5200E-05
00000E-93	8.051E-10	6.956E-10	8.021E-10	4.884E-09	4.5827E-07	2.7610E-05
00000E-94	8.164E-10	7.058E-10	8.185E-10	4.991E-09	4.8297E-07	3.0200E-05
00000E-95	8.278E-10	7.161E-10	8.351E-10	5.099E-09	5.0847E-07	3.2980E-05
00000E-96	8.393E-10	7.265E-10	8.519E-10	5.208E-09	5.3477E-07	3.5960E-05
00000E-97	8.510E-10	7.370E-10	8.689E-10	5.318E-09	5.6187E-07	3.9160E-05
00000E-98	8.628E-10	7.476E-10	8.861E-10	5.429E-09	5.8977E-07	4.2590E-05
00000E-99	8.748E-10	7.583E-10	9.035E-10	5.541E-09	6.1847E-07	4.6260E-05
00000E-100	8.869E-10	7.691E-10	9.204E-10	5.654E-09	6.4797E-07	5.0180E-05
TOTAL	5.594E-09	5.814E-09	4.350E-09	2.375E-09	1.137E-09	5.201E-10



(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

[illegible]

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	2.657E-02	2.667E-02	2.709E-02	2.795E-02	2.929E-02	3.127E-02	3.406E-02	3.793E-02	4.322E-02
1.11E 01---5.50E 01	1.527E-01	1.527E-01	1.547E-01	1.586E-01	1.643E-01	1.723E-01	1.827E-01	1.961E-01	2.132E-01
1.293E 00	1.293E 00	1.293E 00	1.305E 00	1.325E 00	1.352E 00	1.389E 00	1.435E 00	1.491E 00	1.557E 00
1.147E 00	1.147E 00	1.149E 00	1.156E 00	1.169E 00	1.187E 00	1.211E 00	1.240E 00	1.275E 00	1.315E 00
6.748E 01	6.748E 01	6.756E 01	6.790E 01	6.855E 01	6.947E 01	7.066E 01	7.211E 01	7.380E 01	7.572E 01
2.845E 02	2.845E 02	2.853E 02	2.866E 02	2.890E 02	2.924E 02	2.969E 02	3.022E 02	3.085E 02	3.155E 02
8.127E 02	8.127E 02	8.136E 02	8.170E 02	8.235E 02	8.325E 02	8.443E 02	8.584E 02	8.747E 02	8.929E 02
2.115E 03	2.115E 03	2.117E 03	2.125E 03	2.141E 03	2.162E 03	2.190E 03	2.223E 03	2.262E 03	2.304E 03
5.537E 03	5.537E 03	5.542E 03	5.562E 03	5.599E 03	5.652E 03	5.719E 03	5.799E 03	5.891E 03	5.993E 03
1.186E 04	1.186E 04	1.187E 04	1.191E 04	1.198E 04	1.209E 04	1.222E 04	1.238E 04	1.256E 04	1.276E 04
1.690E 04	1.691E 04	1.697E 04	1.697E 04	1.707E 04	1.720E 04	1.737E 04	1.757E 04	1.779E 04	1.803E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	4.435E-02	6.576E-02	7.052E-02	9.933E-02	1.245E-01	1.835E-01	3.037E-01	1.348E 00	1.068E 00
1.11E 01---5.50E 01	2.658E-01	2.366E-01	3.164E-01	3.213E-01	4.131E-01	4.682E-01	6.245E-01	1.085E 00	3.404E 00
1.542E 00	1.542E 00	1.781E 00	1.772E 00	1.957E 00	2.008E 00	2.164E 00	2.244E 00	2.352E 00	2.073E 01
5.83E 04---3.35E-02	1.359E 00	1.409E 00	1.453E 00	1.512E 00	1.562E 00	1.609E 00	1.646E 00	1.671E 00	1.708E 01
1.01E 04---5.83E-04	7.781E 01	8.006E 01	8.236E 01	8.464E 01	8.677E 01	8.834E 01	9.009E 01	9.096E 01	9.745E 02
2.90E 05---1.01E-04	3.230E 02	3.310E 02	3.390E 02	3.469E 02	3.541E 02	3.603E 02	3.649E 02	3.677E 02	4.041E 03
1.07E 05---2.90E-05	9.124E 02	9.329E 02	9.534E 02	9.731E 02	9.911E 02	1.006E 03	1.018E 03	1.024E 03	1.141E 04
3.06E 06---1.07E-05	2.349E 03	2.396E 03	2.443E 03	2.487E 03	2.527E 03	2.561E 03	2.586E 03	2.600E 03	2.937E 04
1.12E 06---3.06E-06	6.101E 03	6.212E 03	6.322E 03	6.426E 03	6.520E 03	6.598E 03	6.655E 03	6.688E 03	7.627E 04
4.14E 07---1.12E-06	1.298E 04	1.320E 04	1.341E 04	1.361E 04	1.379E 04	1.394E 04	1.406E 04	1.412E 04	1.622E 05
0.0	1.829E 04	1.856E 04	1.882E 04	1.907E 04	1.929E 04	1.947E 04	1.959E 04	1.966E 04	2.288E 05

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9854	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 02	2.075E-02	2.083E-02	2.119E-02	2.191E-02	2.303E-02	2.466E-02	2.695E-02	3.009E-02	3.438E-02
1.11E 01---5.50E 01	1.314E-01	1.319E-01	1.336E-01	1.379E-01	1.421E-01	1.490E-01	1.580E-01	1.695E-01	1.838E-01
3.35E 02---1.11E 01	1.363E 00	1.366E 00	1.377E 00	1.399E 00	1.429E 00	1.470E 00	1.521E 00	1.583E 00	1.656E 00
5.82E 04---3.35E 02	1.308E 00	1.310E 00	1.319E 00	1.335E 00	1.357E 00	1.387E 00	1.426E 00	1.467E 00	1.517E 00
1.01E 04---5.82E 04	8.241E 01	8.252E 01	8.301E 01	8.391E 01	8.518E 01	8.685E 01	8.886E 01	9.127E 01	9.398E 01
2.90E 05---1.01E 04	3.639E 02	3.644E 02	3.664E 02	3.700E 02	3.752E 02	3.819E 02	3.901E 02	3.997E 02	4.104E 02
1.07E 05---2.90E 05	1.073E 03	1.074E 03	1.080E 03	1.090E 03	1.105E 03	1.124E 03	1.146E 03	1.173E 03	1.203E 03
3.06E 06---1.07E 05	2.895E 03	2.899E 03	2.913E 03	2.939E 03	2.976E 03	3.023E 03	3.081E 03	3.147E 03	3.222E 03
1.12E 06---3.06E 06	7.779E 03	7.787E 03	7.833E 03	7.889E 03	7.983E 03	8.103E 03	8.248E 03	8.416E 03	8.603E 03
4.14E 07---1.12E 06	1.704E 04	1.705E 04	1.713E 04	1.727E 04	1.746E 04	1.771E 04	1.801E 04	1.836E 04	1.874E 04
0.0 ---4.14E 07	2.485E 04	2.487E 04	2.497E 04	2.516E 04	2.541E 04	2.574E 04	2.612E 04	2.656E 04	2.704E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 02	4.201E-02	4.678E-02	6.047E-02	7.422E-02	9.964E-02	1.364E-01	2.124E-01	6.805E-01	7.667E-01
1.11E 01---5.50E 01	1.905E-01	2.323E-01	2.437E-01	2.917E-01	3.255E-01	3.879E-01	4.586E-01	6.302E-01	7.791E 00
3.35E 02---1.11E 01	1.784E 00	1.804E 00	1.953E 00	2.026E 00	2.165E 00	2.250E 00	2.358E 00	2.415E 00	2.506E 01
5.83E 04---3.35E 02	1.572E 00	1.631E 00	1.695E 00	1.758E 00	1.819E 00	1.873E 00	1.916E 00	1.942E 00	1.973E 01
1.01E 04---5.83E 04	9.696E 01	1.001E 02	1.034E 02	1.067E 02	1.097E 02	1.124E 02	1.146E 02	1.156E 02	1.214E 03
2.90E 05---1.01E 04	4.222E 02	4.345E 02	4.472E 02	4.596E 02	4.711E 02	4.809E 02	4.886E 02	4.928E 02	5.281E 03
1.07E 05---2.90E 05	1.235E 03	1.269E 03	1.304E 03	1.338E 03	1.369E 03	1.395E 03	1.415E 03	1.426E 03	1.545E 04
3.06E 06---1.07E 05	3.302E 03	3.386E 03	3.470E 03	3.552E 03	3.626E 03	3.689E 03	3.737E 03	3.764E 03	4.127E 04
1.12E 06---3.06E 06	8.804E 03	9.013E 03	9.223E 03	9.424E 03	9.606E 03	9.760E 03	9.874E 03	9.940E 03	1.100E 05
4.14E 07---1.12E 06	1.916E 04	1.958E 04	2.001E 04	2.042E 04	2.079E 04	2.109E 04	2.132E 04	2.146E 04	2.394E 05
0.0 ---4.14E 07	2.756E 04	2.870E 04	2.865E 04	2.916E 04	2.962E 04	3.000E 04	3.027E 04	3.042E 04	3.446E 05

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9854	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	1.437E-02	1.444E-02	1.470E-02	1.522E-02	1.603E-02	1.720E-02	1.883E-02	2.106E-02	2.408E-02
1.11E 01--5.50E 01	9.792E-02	9.824E-02	9.959E-02	1.022E-01	1.059E-01	1.111E-01	1.178E-01	1.264E-01	1.371E-01
3.35E 02--1.11E 01	1.157E 00	1.160E 00	1.170E 00	1.188E 00	1.215E 00	1.251E 00	1.295E 00	1.349E 00	1.412E 00
5.82E 04--3.35E 02	1.182E 00	1.164E 00	1.172E 00	1.187E 00	1.208E 00	1.235E 00	1.269E 00	1.310E 00	1.356E 00
1.01E 04--5.82E 04	7.640E 01	7.651E 01	7.659E 01	7.789E 01	7.915E 01	8.081E 01	8.283E 01	8.521E 01	8.792E 01
2.90E 05--1.01E 04	3.474E 02	3.479E 02	3.503E 02	3.537E 02	3.591E 02	3.662E 02	3.747E 02	3.847E 02	3.960E 02
1.07E 05--2.90E 05	1.048E 03	1.050E 03	1.056E 03	1.067E 03	1.082E 03	1.103E 03	1.128E 03	1.157E 03	1.189E 03
3.06E 06--1.07E 05	2.905E 03	2.809E 03	2.925E 03	2.954E 03	2.996E 03	3.050E 03	3.115E 03	3.191E 03	3.276E 03
1.12E 06--3.06E 06	7.965E 03	7.975E 03	8.017E 03	8.094E 03	8.202E 03	8.344E 03	8.514E 03	8.712E 03	8.934E 03
4.14E 07--1.12E 06	1.777E 04	1.779E 04	1.788E 04	1.805E 04	1.828E 04	1.858E 04	1.894E 04	1.937E 04	1.984E 04
0.0 --4.14E-07	2.642E 04	2.645E 04	2.657E 04	2.689E 04	2.711E 04	2.751E 04	2.799E 04	2.854E 04	2.915E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	2.795E-02	3.353E-02	4.135E-02	5.245E-02	6.809E-02	9.282E-02	1.372E-01	3.468E-01	5.059E-01
1.11E 01--5.50E 01	1.524E 00	1.652E 00	1.873E 00	2.095E 00	2.399E 00	2.736E 00	3.165E 00	3.807E 00	4.645E 00
3.35E 02--1.11E 01	1.471E 00	1.571E 00	1.646E 00	1.745E 00	1.830E 00	1.920E 00	1.987E 00	2.03E 00	2.045E 00
5.82E 04--3.35E 02	1.407E 00	1.462E 00	1.520E 00	1.578E 00	1.633E 00	1.681E 00	1.719E 00	1.742E 00	1.764E 01
1.01E 04--5.82E 04	9.089E 01	9.407E 01	9.734E 01	1.006E 02	1.036E 02	1.062E 02	1.083E 02	1.095E 02	1.138E 03
2.90E 05--1.01E 04	4.083E 02	4.214E 02	4.348E 02	4.480E 02	4.601E 02	4.706E 02	4.785E 02	4.832E 02	5.108E 03
1.07E 05--2.90E 05	1.225E 03	1.263E 03	1.301E 03	1.338E 03	1.373E 03	1.402E 03	1.425E 03	1.438E 03	1.532E 04
3.06E 06--1.07E 05	3.369E 03	3.466E 03	3.565E 03	3.660E 03	3.748E 03	3.823E 03	3.879E 03	3.911E 03	4.211E 04
1.12E 06--3.06E 06	9.174E 03	9.425E 03	9.679E 03	9.924E 03	1.015E 04	1.034E 04	1.048E 04	1.056E 04	1.147E 05
4.14E 07--1.12E 06	2.034E 04	2.088E 04	2.141E 04	2.192E 04	2.239E 04	2.278E 04	2.308E 04	2.325E 04	2.542E 05
0.0 --4.14E-07	2.981E 04	3.051E 04	3.120E 04	3.187E 04	3.247E 04	3.297E 04	3.334E 04	3.354E 04	3.727E 05

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	9.314E-03	9.356E-03	9.533E-03	9.882E-03	1.042E-02	1.119E-02	1.227E-02	1.374E-02	1.573E-02
6.713E-02	6.735E-02	6.829E-02	7.006E-02	7.266E-02	7.623E-02	8.086E-02	8.674E-02	9.404E-02	9.404E-02
8.710E-01	8.728E-01	8.805E-01	8.949E-01	9.135E-01	9.429E-01	9.859E-01	9.771E-01	1.018E 00	1.066E 00
9.004E-01	9.019E-01	9.083E-01	9.200E-01	9.368E-01	9.589E-01	9.859E-01	8.821E 01	7.046E 01	3.240E 02
6.089E 01	6.099E 01	6.139E 01	6.213E 01	6.318E 01	6.455E 01	6.623E 01	3.057E 02	3.143E 02	9.895E 02
2.824E 02	2.828E 02	2.846E 02	2.878E 02	2.924E 02	2.984E 02	3.057E 02	9.507E 02	2.704E 03	2.782E 03
8.655E 02	8.667E 02	8.720E 02	8.817E 02	8.954E 02	9.134E 02	9.351E 02	2.635E 03	7.500E 03	7.706E 03
2.446E 03	2.450E 03	2.464E 03	2.490E 03	2.528E 03	2.576E 03	2.635E 03	1.651E 04	2.530E 04	2.589E 04
3.06E 03--1.07E 05	6.808E 03	6.817E 03	6.855E 03	6.926E 03	7.027E 03	7.157E 03	1.651E 04	2.530E 04	2.589E 04
1.12E 06--3.06E 06	1.540E 04	1.542E 04	1.551E 04	1.566E 04	1.588E 04	1.617E 04	2.476E 04	2.530E 04	2.589E 04
4.14E 07--1.12E 06	2.325E 04	2.328E 04	2.340E 04	2.361E 04	2.392E 04	2.430E 04	2.476E 04	2.530E 04	2.589E 04
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	1.843E-02	2.204E-02	2.705E-02	3.400E-02	4.398E-02	5.899E-02	8.449E-02	1.788E-01	3.186E-01
6.713E-02	1.141E-01	1.271E-01	1.430E-01	1.612E-01	1.812E-01	2.058E-01	2.352E-01	2.725E-01	3.186E-01
8.710E-01	1.160E 00	1.248E 00	1.314E 00	1.383E 00	1.443E 00	1.494E 00	1.539E 00	1.575E 00	1.615E 01
9.004E-01	1.139E 00	1.184E 00	1.230E 00	1.273E 00	1.310E 00	1.339E 00	1.370E 00	1.397E 00	1.428E 02
6.089E 01	7.557E 01	7.828E 01	8.097E 01	8.347E 01	8.564E 01	8.730E 01	8.828E 01	8.900E 02	9.128E 02
2.824E 02	3.459E 02	3.574E 02	3.687E 02	3.792E 02	3.882E 02	3.950E 02	4.000E 02	4.040E 02	4.080E 03
8.655E 02	1.054E 03	1.088E 03	1.121E 03	1.152E 03	1.186E 03	1.210E 03	1.230E 03	1.245E 03	1.277E 04
3.06E 03--1.07E 05	2.956E 03	3.046E 03	3.134E 03	3.215E 03	3.284E 03	3.336E 03	3.366E 03	3.376E 03	3.383E 04
1.12E 06--3.06E 06	8.167E 03	8.406E 03	8.633E 03	8.850E 03	9.031E 03	9.166E 03	9.245E 03	9.291E 04	9.312E 04
4.14E 07--1.12E 06	1.785E 04	1.888E 04	1.937E 04	1.983E 04	2.022E 04	2.050E 04	2.067E 04	2.076E 04	2.085E 05
0.0	2.654E 04	2.723E 04	2.792E 04	2.858E 04	2.918E 04	2.968E 04	3.005E 04	3.026E 04	3.038E 05

ENERGY  
GROUP (MEV)SCALAR  
FLUX

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	5.781E-03	5.808E-03	5.921E-03	6.142E-03	6.482E-03	6.972E-03	7.650E-03	8.574E-03	9.820E-03
1.11E 01--5.50E 01	4.364E-02	4.379E-02	4.440E-02	4.566E-02	4.726E-02	4.959E-02	5.261E-02	5.643E-02	6.117E-02
3.35E 02--1.11E 01	6.070E-01	6.083E-01	6.138E-01	6.239E-01	6.385E-01	6.579E-01	6.819E-01	7.110E-01	7.448E-01
5.83E 04--3.35E 02	6.403E-01	6.414E-01	6.450E-01	6.545E-01	6.666E-01	6.826E-01	7.021E-01	7.253E-01	7.516E-01
1.01E 04--5.83E 04	4.415E 01	4.422E 01	4.452E 01	4.507E 01	4.589E 01	4.688E 01	4.813E 01	4.960E 01	5.127E 01
2.90E 05--1.01E 04	2.076E 02	2.079E 02	2.092E 02	2.117E 02	2.152E 02	2.197E 02	2.253E 02	2.318E 02	2.391E 02
1.07E 05--2.90E 05	6.432E 02	6.442E 02	6.483E 02	6.557E 02	6.663E 02	6.802E 02	6.970E 02	7.167E 02	7.390E 02
3.06E 06--1.07E 05	1.844E 03	1.846E 03	1.858E 03	1.878E 03	1.908E 03	1.946E 03	1.993E 03	2.047E 03	2.108E 03
1.12E 06--3.06E 06	5.187E 03	5.194E 03	5.225E 03	5.282E 03	5.362E 03	5.467E 03	5.593E 03	5.741E 03	5.908E 03
4.14E 07--1.12E 06	1.186E 04	1.188E 04	1.194E 04	1.207E 04	1.225E 04	1.248E 04	1.276E 04	1.309E 04	1.346E 04
0.0	1.811E 04	1.813E 04	1.823E 04	1.841E 04	1.865E 04	1.897E 04	1.935E 04	1.980E 04	2.029E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	1.150E-02	1.377E-02	1.686E-02	2.113E-02	2.717E-02	3.604E-02	5.032E-02	9.323E-02	1.939E-01
1.11E 01--5.50E 01	6.699E-02	7.400E-02	8.241E-02	9.238E-02	1.036E-01	1.162E-01	1.293E-01	1.419E-01	8.935E-01
3.35E 02--1.11E 01	7.828E-01	8.259E-01	8.712E-01	9.185E-01	9.645E-01	1.007E 00	1.040E 00	1.061E 00	9.876E 00
5.83E 04--3.35E 02	7.805E-01	8.124E-01	8.450E-01	8.775E-01	9.081E-01	9.348E-01	9.553E-01	9.675E-01	9.783E 00
1.01E 04--5.83E 04	5.311E 01	5.507E 01	5.709E 01	5.908E 01	6.093E 01	6.253E 01	6.375E 01	6.447E 01	6.646E 02
2.90E 05--1.01E 04	2.472E 02	2.558E 02	2.645E 02	2.731E 02	2.811E 02	2.879E 02	2.931E 02	2.961E 02	3.092E 03
1.07E 05--2.90E 05	7.633E 02	7.891E 02	8.155E 02	8.412E 02	8.650E 02	8.854E 02	9.007E 02	9.097E 02	9.545E 03
3.06E 06--1.07E 05	2.175E 03	2.246E 03	2.318E 03	2.388E 03	2.453E 03	2.508E 03	2.549E 03	2.573E 03	2.719E 04
1.12E 06--3.06E 06	6.089E 03	6.279E 03	6.470E 03	6.661E 03	6.834E 03	6.980E 03	7.090E 03	7.155E 03	7.610E 04
4.14E 07--1.12E 06	1.386E 04	1.428E 04	1.470E 04	1.511E 04	1.549E 04	1.581E 04	1.605E 04	1.619E 04	1.732E 05
0.0	2.084E 04	2.141E 04	2.199E 04	2.254E 04	2.305E 04	2.347E 04	2.379E 04	2.397E 04	2.605E 05

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 900.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.5894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	1.189E-03	1.955E-03	1.213E-03	1.267E-03	1.339E-03	1.43E-03	1.585E-03	1.780E-03	2.041E-03
1.11E 01--5.50E 01	9.947E-03	9.980E-03	1.012E-02	1.039E-02	1.078E-02	1.132E-02	1.201E-02	1.288E-02	1.396E-02
3.35E 02--1.11E 01	1.577E-01	1.580E-01	1.595E-01	1.622E-01	1.661E-01	1.712E-01	1.776E-01	1.853E-01	1.942E-01
5.83E 04--3.35E 02	1.720E-01	1.723E-01	1.735E-01	1.759E-01	1.792E-01	1.836E-01	1.890E-01	1.954E-01	2.026E-01
1.01E 04--5.83E 04	1.225E 01	1.227E 01	1.235E 01	1.251E 01	1.274E 01	1.303E 01	1.339E 01	1.381E 01	1.429E 01
2.90E 05--1.01E 04	5.886E 01	5.896E 01	5.935E 01	6.008E 01	6.11E 01	6.27E 01	6.41E 01	6.604E 01	6.822E 01
1.07E 05--2.90E 05	1.857E 02	1.860E 02	1.873E 02	1.895E 02	1.928E 02	1.970E 02	2.021E 02	2.081E 02	2.149E 02
3.06E 06--1.07E 05	5.448E 02	5.457E 02	5.495E 02	5.557E 02	5.650E 02	5.770E 02	5.917E 02	6.088E 02	6.282E 02
1.12E 06--3.06E 06	1.561E 03	1.564E 03	1.578E 03	1.592E 03	1.618E 03	1.651E 03	1.692E 03	1.740E 03	1.794E 03
4.14E 07--1.12E 06	3.634E 03	3.640E 03	3.662E 03	3.704E 03	3.763E 03	3.839E 03	3.932E 03	4.041E 03	4.163E 03
0.0 --4.14E-07	5.658E 03	5.666E 03	5.693E 03	5.759E 03	5.843E 03	5.951E 03	6.081E 03	6.233E 03	6.402E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	2.390E-03	2.859E-03	3.490E-03	4.348E-03	5.520E-03	7.146E-03	9.467E-03	1.383E-02	3.858E-02
1.11E 01--5.50E 01	1.527E-02	1.684E-02	1.868E-02	2.080E-02	2.313E-02	2.57E-02	2.785E-02	2.954E-02	2.013E-01
3.35E 02--1.11E 01	2.043E-01	2.154E-01	2.272E-01	2.392E-01	2.509E-01	2.613E-01	2.695E-01	2.744E-01	2.571E 00
5.83E 04--3.35E 02	2.106E-01	2.192E-01	2.283E-01	2.368E-01	2.449E-01	2.520E-01	2.574E-01	2.605E-01	2.636E 00
1.01E 04--5.83E 04	1.482E 01	1.538E 01	1.595E 01	1.652E 01	1.704E 01	1.749E 01	1.783E 01	1.803E 01	1.853E 02
2.90E 05--1.01E 04	7.061E 01	7.315E 01	7.574E 01	7.827E 01	8.060E 01	8.260E 01	8.410E 01	8.499E 01	8.828E 02
1.07E 05--2.90E 05	2.223E 02	2.301E 02	2.382E 02	2.460E 02	2.532E 02	2.594E 02	2.640E 02	2.667E 02	2.779E 03
3.06E 06--1.07E 05	6.493E 02	6.716E 02	6.944E 02	7.165E 02	7.369E 02	7.542E 02	7.675E 02	7.749E 02	8.115E 03
1.12E 06--3.06E 06	1.853E 03	1.915E 03	1.978E 03	2.039E 03	2.095E 03	2.143E 03	2.179E 03	2.200E 03	2.316E 04
4.14E 07--1.12E 06	4.297E 03	4.437E 03	4.579E 03	4.718E 03	4.844E 03	4.952E 03	5.033E 03	5.080E 03	5.369E 04
0.0 --4.14E-07	6.588E 03	6.765E 03	6.984E 03	7.177E 03	7.353E 03	7.500E 03	7.610E 03	7.673E 03	8.237E 04

ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
GROUP (MEV)	MU=-0.10000	MU=-0.09894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	2.168E-04	2.213E-04	2.303E-04	2.434E-04	2.625E-04	2.888E-04	3.245E-04	3.722E-04
4.11E 01---5.50E-01	1.931E-03	1.937E-03	1.965E-03	2.017E-03	2.094E-03	2.198E-03	2.333E-03	2.504E-03	2.713E-03
3.35E 02---1.11E-01	3.294E-02	3.301E-02	3.332E-02	3.388E-02	3.470E-02	3.579E-02	3.713E-02	3.875E-02	4.062E-02
5.83E 04---3.35E-02	3.649E-02	3.656E-02	3.683E-02	3.733E-02	3.805E-02	3.899E-02	4.014E-02	4.150E-02	4.303E-02
1.01E 04---5.83E-04	2.638E 00	2.642E 00	2.661E 00	2.695E 00	2.745E 00	2.809E 00	2.887E 00	2.979E 00	3.084E 00
2.28E 00---1.01E-04	1.281E 01	1.283E 01	1.292E 01	1.308E 01	1.330E 01	1.360E 01	1.397E 01	1.439E 01	1.487E 01
1.07E 05---2.90E-05	4.074E 01	4.080E 01	4.108E 01	4.159E 01	4.231E 01	4.325E 01	4.439E 01	4.573E 01	4.725E 01
3.06E 06---1.07E-05	1.207E 02	1.209E 02	1.217E 02	1.232E 02	1.253E 02	1.280E 02	1.313E 02	1.352E 02	1.396E 02
1.12E 06---3.06E-06	3.488E 02	3.494E 02	3.517E 02	3.558E 02	3.617E 02	3.695E 02	3.788E 02	3.898E 02	4.021E 02
4.14E 07---1.12E-06	8.184E 02	8.196E 02	8.249E 02	8.345E 02	8.481E 02	8.658E 02	8.873E 02	9.125E 02	9.408E 02
0.0 ---4.14E-07	1.285E 03	1.287E 03	1.295F 03	1.303E 03	1.328E 03	1.354E 03	1.384E 03	1.419E 03	1.459E 03
ENERGY	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAK
GROUP (MEV)	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---1.83E 00	0.0	0							



## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	3.653E-05	3.671E-05	3.749E-05	3.898E-05	4.127E-05	4.454E-05	4.903E-05	5.511E-05	6.323E-05
1.11E 01---5.50E 01	3.433E-04	3.445E-04	3.495E-04	3.588E-04	3.725E-04	3.911E-04	4.152E-04	4.455E-04	4.827E-04
3.35E 02---1.11E 01	6.118E-03	6.132E-03	6.190E-03	6.296E-03	6.449E-03	6.651E-03	6.902E-03	7.203E-03	7.551E-03
5.83E 04---3.35E 02	6.840E-03	6.852E-03	6.904E-03	6.998E-03	7.134E-03	7.311E-03	7.527E-03	7.783E-03	8.073E-03
1.01E 04---5.83E 04	4.984E-01	4.993E-01	5.029E-01	5.094E-01	5.188E-01	5.310E-01	5.459E-01	5.634E-01	5.832E-01
2.50E 05---1.01E 04	2.433E 00	2.437E 00	2.454E 00	2.485E 00	2.528E 00	2.586E 00	2.655E 00	2.737E 00	2.829E 00
1.07E 05---2.50E 05	7.774E 00	7.786E 00	7.840E 00	7.937E 00	8.076E 00	8.256E 00	8.476E 00	8.734E 00	9.024E 00
3.06E 05---1.07E 05	2.317E 01	2.320E 01	2.336E 01	2.364E 01	2.405E 01	2.458E 01	2.522E 01	2.597E 01	2.682E 01
1.12E 06---3.06E 06	6.721E 01	6.732E 01	6.776E 01	6.857E 01	6.973E 01	7.123E 01	7.305E 01	7.518E 01	7.758E 01
4.14E 07---1.12E 06	1.583E 02	1.586E 02	1.596E 02	1.615E 02	1.641E 02	1.676E 02	1.718E 02	1.767E 02	1.823E 02
0.0	2.497E 02	2.501E 02	2.515E 02	2.544E 02	2.582E 02	2.632E 02	2.692E 02	2.761E 02	2.839E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	7.404E-05	8.843E-05	1.076E-04	1.330E-04	1.665E-04	2.098E-04	2.634E-04	3.247E-04	1.152E-03
1.11E 01---5.50E 01	5.276E-04	5.809E-04	6.425E-04	7.118E-04	7.859E-04	8.597E-04	9.240E-04	9.564E-04	6.898E-03
3.35E 02---1.11E 01	7.94E-03	8.374E-03	8.828E-03	9.287E-03	9.725E-03	1.011E-02	1.041E-02	1.059E-02	9.984E-02
5.83E 04---3.35E 02	8.393E-03	8.733E-03	9.084E-03	9.428E-03	9.747E-03	1.002E-02	1.023E-02	1.035E-02	1.050E-01
1.01E 04---5.83E 04	6.049E-01	6.279E-01	6.514E-01	6.744E-01	6.956E-01	7.137E-01	7.273E-01	7.353E-01	7.560E 00
2.50E 05---1.01E 04	2.929E 00	3.035E 00	3.143E 00	3.249E 00	3.345E 00	3.428E 00	3.490E 00	3.526E 00	3.660E 01
1.07E 05---2.50E 05	9.342E 00	9.677E 00	1.002E 01	1.035E 01	1.065E 01	1.091E 01	1.111E 01	1.122E 01	1.167E 02
3.06E 05---1.07E 05	2.774E 01	2.871E 01	2.970E 01	3.065E 01	3.155E 01	3.229E 01	3.286E 01	3.318E 01	3.466E 02
1.12E 06---3.06E 06	8.019E 01	8.294E 01	8.574E 01	8.845E 01	9.092E 01	9.303E 01	9.460E 01	9.552E 01	1.002E 03
4.14E 07---1.12E 06	1.883E 02	1.946E 02	2.011E 02	2.073E 02	2.130E 02	2.178E 02	2.214E 02	2.235E 02	2.352E 03
0.0	2.925E 02	3.015E 02	3.107E 02	3.195E 02	3.275E 02	3.343E 02	3.393E 02	3.421E 02	3.656E 03

0.111 TO 1.108 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.92E-01---1.11E 00	5.92E-06	5.954E-06	6.081E-06	6.325E-06	6.699E-06	7.234E-06	7.465E-06	8.956E-06	1.028E-05
1.11E-01---5.90E-01	5.766E-05	5.786E-05	5.870E-05	6.025E-05	6.257E-05	6.571E-05	6.976E-05	7.486E-05	8.110E-05
3.35E-02---1.11E-01	1.057E-03	1.060E-03	1.070E-03	1.088E-03	1.115E-03	1.150E-03	1.193E-03	1.245E-03	1.305E-03
5.83E-04---3.35E-02	1.189E-03	1.191E-03	1.200E-03	1.216E-03	1.240E-03	1.271E-03	1.308E-03	1.353E-03	1.403E-03
1.01E-04---5.83E-04	8.705E-02	8.720E-02	8.783E-02	8.872E-02	9.041E-02	9.275E-02	9.535E-02	9.842E-02	1.019E-01
2.90E-05---1.01E-04	4.263E-01	4.270E-01	4.302E-01	4.354E-01	4.431E-01	4.531E-01	4.653E-01	4.797E-01	4.958E-01
1.07E-05---2.90E-05	1.366E 00	1.368E 00	1.377E 00	1.394E 00	1.419E 00	1.451E 00	1.489E 00	1.535E 00	1.586E 00
3.06E-06---1.07E-05	4.083E 00	4.089E 00	4.117E 00	4.167E 00	4.239E 00	4.333E 00	4.446E 00	4.579E 00	4.729E 00
1.12E-06---3.06E-06	1.188E 01	1.189E 01	1.197E 01	1.212E 01	1.232E 01	1.259E 01	1.291E 01	1.329E 01	1.371E 01
4.14E-07---1.12E-06	2.804E 01	2.808E 01	2.827E 01	2.868E 01	2.908E 01	2.969E 01	3.044E 01	3.132E 01	3.230E 01
0.0 ---4.14E-07	4.434E 01	4.440E 01	4.468E 01	4.517E 01	4.586E 01	4.675E 01	4.781E 01	4.905E 01	5.045E 01

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.90E-01---1.11E 00	1.203E-05	1.436E-05	1.745E-05	2.152E-05	2.682E-05	3.354E-05	4.149E-05	4.952E-05	1.855E-04
1.11E-01---5.90E-01	8.64E-05	9.754E-05	1.078E-04	1.193E-04	1.314E-04	1.434E-04	1.537E-04	1.603E-04	1.156E-03
3.35E-02---1.11E-01	1.373E-03	1.447E-03	1.525E-03	1.604E-03	1.679E-03	1.745E-03	1.795E-03	1.827E-03	1.725E-02
5.83E-04---3.35E-02	1.459E-03	1.518E-03	1.578E-03	1.638E-03	1.693E-03	1.740E-03	1.778E-03	1.797E-03	1.824E-02
1.01E-04---5.83E-04	1.057E-01	1.097E-01	1.138E-01	1.178E-01	1.215E-01	1.246E-01	1.270E-01	1.283E-01	1.321E 00
2.90E-05---1.01E-04	5.134E-01	5.320E-01	5.513E-01	5.694E-01	5.862E-01	6.006E-01	6.113E-01	6.176E-01	6.414E 00
1.07E-05---2.90E-05	1.642E 00	1.701E 00	1.761E 00	1.819E 00	1.872E 00	1.917E 00	1.951E 00	1.971E 00	2.031E 01
3.06E-06---1.07E-05	4.892E 00	5.064E 00	5.238E 00	5.407E 00	5.562E 00	5.694E 00	5.792E 00	5.850E 00	6.111E 01
1.12E-06---3.06E-06	1.418E 01	1.466E 01	1.516E 01	1.564E 01	1.607E 01	1.645E 01	1.672E 01	1.688E 01	1.771E 02
4.14E-07---1.12E-06	3.337E 01	3.450E 01	3.564E 01	3.674E 01	3.775E 01	3.860E 01	3.924E 01	3.961E 01	4.168E 02
0.0 ---4.14E-07	5.197E 01	5.358E 01	5.521E 01	5.678E 01	5.821E 01	5.940E 01	6.028E 01	6.079E 01	6.495E 02

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 75.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	3.444E-06	3.451E-06	3.475E-06	3.521E-06	3.590E-06	3.680E-06	3.790E-06	3.919E-06	4.065E-06
6.50E 00---8.00E 00	7.145E-06	7.158E-06	7.208E-06	7.304E-06	7.445E-06	7.631E-06	7.858E-06	8.123E-06	8.423E-06
5.00E 00---6.50E 00	8.072E-05	8.087E-05	8.141E-05	8.247E-05	8.403E-05	8.607E-05	8.877E-05	9.149E-05	9.477E-05
4.00E 00---5.00E 00	2.187E-05	2.192E-05	2.208E-05	2.240E-05	2.287E-05	2.348E-05	2.423E-05	2.510E-05	2.609E-05
3.00E 00---4.00E 00	3.916E-05	3.923E-05	3.950E-05	4.004E-05	4.083E-05	4.186E-05	4.312E-05	4.460E-05	4.626E-05
2.50E 00---3.00E 00	9.426E-06	9.452E-06	9.550E-06	9.743E-06	1.003E-05	1.040E-05	1.086E-05	1.140E-05	1.201E-05
2.00E 00---2.50E 00	1.062E-05	1.065E-05	1.075E-05	1.097E-05	1.129E-05	1.170E-05	1.220E-05	1.280E-05	1.347E-05
1.66E 00---2.00E 00	1.236E-05	1.239E-05	1.252E-05	1.276E-05	1.312E-05	1.359E-05	1.417E-05	1.485E-05	1.561E-05
1.33E 00---1.66E 00	1.482E-05	1.486E-05	1.501E-05	1.530E-05	1.572E-05	1.627E-05	1.695E-05	1.774E-05	1.863E-05
1.00E 00---1.33E 00	1.929E-05	1.934E-05	1.953E-05	1.989E-05	2.043E-05	2.112E-05	2.197E-05	2.296E-05	2.406E-05
8.00E 01---1.00E 01	2.609E-05	2.615E-05	2.640E-05	2.687E-05	2.752E-05	2.846E-05	2.954E-05	3.078E-05	3.216E-05
6.00E 01---8.00E 01	3.731E-05	3.739E-05	3.772E-05	3.834E-05	3.925E-05	4.042E-05	4.183E-05	4.342E-05	4.517E-05
4.00E 01---6.00E 01	1.444E-04	1.446E-04	1.454E-04	1.469E-04	1.490E-04	1.517E-04	1.548E-04	1.584E-04	1.627E-04
2.00E 01---4.00E 01	1.730E-04	1.732E-04	1.740E-04	1.754E-04	1.775E-04	1.800E-04	1.830E-04	1.864E-04	1.899E-04
1.00E 01---2.00E 01	3.309E-04	3.310E-04	3.315E-04	3.324E-04	3.337E-04	3.354E-04	3.373E-04	3.395E-04	3.422E-04
5.00E 02---1.00E 01	8.592E-04	8.596E-04	8.610E-04	8.638E-04	8.678E-04	8.728E-04	8.787E-04	8.854E-04	8.926E-04
2.00E 02---5.00E 02	5.566E-04	5.567E-04	5.570E-04	5.576E-04	5.584E-04	5.594E-04	5.606E-04	5.620E-04	5.634E-04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	4.224E-06	4.303E-06	4.563E-06	4.722E-06	4.870E-06	5.004E-06	5.092E-06	5.094E-06	5.271E-05
6.50E 00---8.00E 00	8.750E-06	9.097E-06	9.445E-06	9.772E-06	1.003E-05	1.035E-05	1.053E-05	1.054E-05	1.092E-04
5.00E 00---6.50E 00	9.836E-05	1.022E-04	1.060E-04	1.096E-04	1.129E-04	1.159E-04	1.178E-04	1.179E-04	1.227E-03
4.00E 00---5.00E 00	2.718E-05	2.833E-05	2.948E-05	3.057E-05	3.158E-05	3.249E-05	3.308E-05	3.310E-05	3.390E-04
3.00E 00---4.00E 00	4.807E-05	5.000E-05	5.172E-05	5.374E-05	5.542E-05	5.692E-05	5.791E-05	5.795E-05	5.997E-04
2.50E 00---3.00E 00	1.268E-05	1.339E-05	1.411E-05	1.480E-05	1.545E-05	1.599E-05	1.635E-05	1.636E-05	1.579E-04
2.00E 00---2.50E 00	1.422E-05	1.500E-05	1.579E-05	1.654E-05	1.722E-05	1.783E-05	1.823E-05	1.824E-05	1.770E-04
1.66E 00---2.00E 00	1.645E-05	1.734E-05	1.823E-05	1.906E-05	1.983E-05	2.051E-05	2.095E-05	2.097E-05	2.047E-04
1.33E 00---1.66E 00	1.960E-05	2.063E-05	2.164E-05	2.260E-05	2.346E-05	2.423E-05	2.473E-05	2.476E-05	2.437E-04
1.00E 00---1.33E 00	2.525E-05	2.649E-05	2.772E-05	2.886E-05	2.990E-05	3.080E-05	3.139E-05	3.143E-05	3.135E-04
8.00E 01---1.00E 01	3.364E-05	3.517E-05	3.666E-05	3.803E-05	3.928E-05	4.033E-05	4.103E-05	4.108E-05	4.172E-04
6.00E 01---8.00E 01	4.702E-05	4.890E-05	5.072E-05	5.237E-05	5.383E-05	5.510E-05	5.591E-05	5.596E-05	5.826E-04
4.00E 01---6.00E 01	1.663E-04	1.704E-04	1.743E-04	1.779E-04	1.812E-04	1.837E-04	1.854E-04	1.854E-04	2.070E-03
3.00E 01---4.00E 01	1.935E-04	1.971E-04	2.005E-04	2.035E-04	2.061E-04	2.084E-04	2.098E-04	2.099E-04	2.410E-03
2.00E 01---3.00E 01	3.449E-04	3.476E-04	3.503E-04	3.528E-04	3.550E-04	3.568E-04	3.580E-04	3.582E-04	4.323E-03
1.00E 01---2.00E 01	9.001E-04	9.076E-04	9.148E-04	9.212E-04	9.269E-04	9.317E-04	9.348E-04	9.354E-04	1.127E-02
5.00E 02---1.00E 01	2.122E-03	2.135E-03	2.147E-03	2.157E-03	2.167E-03	2.175E-03	2.180E-03	2.181E-03	2.660E-02
2.00E 02---5.00E 02	5.648E-04	5.643E-04	5.676E-04	5.688E-04	5.699E-04	5.707E-04	5.713E-04	5.715E-04	7.089E-03

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 150.0 METERS

(GAMMAS/NEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0656	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0619	ANGLE 7 MU=0.0580	ANGLE 8 MU=0.0516	ANGLE 9 MU=0.0490
8.00E 00--1.00E 01	1.19E-05	1.022E-05	1.034E-05	1.058E-05	1.095E-05	1.143E-05	1.205E-05	1.280E-05	1.370E-05
6.50E 00--8.00E 00	2.115E-05	2.122E-05	1.74E-05	2.197E-05	2.272E-05	2.372E-05	2.495E-05	2.654E-05	2.839E-05
5.00E 00--6.50E 00	2.396E-04	2.404E-04	2.432E-04	2.487E-04	2.570E-04	2.680E-04	2.819E-04	2.990E-04	3.192E-04
4.00E 00--5.00E 00	6.415E-05	6.437E-05	6.522E-05	6.689E-05	6.936E-05	7.267E-05	7.687E-05	8.201E-05	8.814E-05
3.00E 00--4.00E 00	1.157E-04	1.161E-04	1.175E-04	1.203E-04	1.245E-04	1.301E-04	1.372E-04	1.458E-04	1.561E-04
2.50E 00--3.00E 00	2.631E-05	2.643E-05	2.694E-05	2.794E-05	2.943E-05	3.144E-05	3.402E-05	3.723E-05	4.109E-05
2.00E 00--2.50E 00	2.981E-05	2.995E-05	3.053E-05	3.161E-05	3.326E-05	3.550E-05	3.837E-05	4.194E-05	4.624E-05
1.66E 00--2.00E 00	3.490E-05	3.506E-05	3.570E-05	3.696E-05	3.886E-05	4.144E-05	4.475E-05	4.885E-05	5.378E-05
1.33E 00--1.66E 00	4.209E-05	4.228E-05	4.305E-05	4.457E-05	4.684E-05	4.991E-05	5.384E-05	5.869E-05	6.448E-05
1.00E 00--1.33E 00	5.524E-05	5.549E-05	5.651E-05	5.850E-05	6.146E-05	6.544E-05	7.049E-05	7.666E-05	8.392E-05
8.00E-01--1.00E 00	7.561E-05	7.596E-05	7.735E-05	8.006E-05	8.406E-05	8.937E-05	9.603E-05	1.040E-04	1.134E-04
6.00E-01--8.00E-01	1.103E-04	1.108E-04	1.128E-04	1.166E-04	1.221E-04	1.294E-04	1.384E-04	1.491E-04	1.611E-04
4.00E-01--6.00E-01	4.638E-04	4.650E-04	4.699E-04	4.793E-04	4.928E-04	5.102E-04	5.311E-04	5.552E-04	5.819E-04
3.00E-01--4.00E-01	5.735E-04	5.749E-04	5.804E-04	5.908E-04	6.053E-04	6.234E-04	6.443E-04	6.675E-04	6.921E-04
2.00E-01--3.00E-01	1.181E-03	1.181E-03	1.189E-03	1.197E-03	1.207E-03	1.227E-03	1.249E-03	1.274E-03	1.301E-03
1.00E-01--2.00E-01	3.076E-03	3.078E-03	3.088E-03	3.106E-03	3.133E-03	3.166E-03	3.207E-03	3.253E-03	3.303E-03
5.00E-02--1.00E-01	7.503E-03	7.508E-03	7.558E-03	7.558E-03	7.605E-03	7.655E-03	7.734E-03	7.816E-03	7.903E-03
2.00E-02--5.00E-02	2.070E-03	2.070E-03	2.072E-03	2.076E-03	2.082E-03	2.089E-03	2.098E-03	2.107E-03	2.118E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00--1.00E 01	1.475E-05	1.591E-05	1.719E-05	1.857E-05	1.982E-05	2.100E-05	2.191E-05	2.242E-05	1.872E-04
6.50E 00--8.00E 00	3.055E-05	3.292E-05	3.544E-05	3.828E-05	4.092E-05	4.344E-05	4.520E-05	4.624E-05	3.874E-04
5.00E 00--6.50E 00	3.427E-04	3.688E-04	3.973E-04	4.271E-04	4.559E-04	4.821E-04	5.022E-04	5.135E-04	4.345E-03
4.00E 00--5.00E 00	9.529E-05	1.033E-04	1.120E-04	1.212E-04	1.302E-04	1.383E-04	1.466E-04	1.481E-04	1.211E-03
3.00E 00--4.00E 00	1.680E-04	1.813E-04	1.958E-04	2.110E-04	2.256E-04	2.399E-04	2.491E-04	2.549E-04	2.131E-03
2.50E 00--3.00E 00	4.566E-05	5.082E-05	5.622E-05	6.253E-05	6.836E-05	7.368E-05	7.775E-05	7.997E-05	5.833E-04
2.00E 00--2.50E 00	5.130E-05	5.700E-05	6.325E-05	6.981E-05	7.612E-05	8.183E-05	8.616E-05	8.856E-05	6.559E-04
1.66E 00--2.00E 00	5.955E-05	6.600E-05	7.303E-05	8.033E-05	8.730E-05	9.356E-05	9.827E-05	1.009E-04	7.587E-04
1.33E 00--1.66E 00	7.122E-05	7.868E-05	8.674E-05	9.501E-05	1.028E-04	1.098E-04	1.149E-04	1.178E-04	9.034E-04
1.00E 00--1.33E 00	9.230E-05	1.014E-04	1.111E-04	1.209E-04	1.300E-04	1.377E-04	1.437E-04	1.470E-04	1.142E-03
8.00E-01--1.00E 00	1.238E-04	1.351E-04	1.467E-04	1.582E-04	1.687E-04	1.777E-04	1.845E-04	1.878E-04	1.547E-03
6.00E-01--8.00E-01	1.744E-04	1.882E-04	2.022E-04	2.155E-04	2.276E-04	2.377E-04	2.449E-04	2.487E-04	2.160E-03
4.00E-01--6.00E-01	6.105E-04	6.396E-04	6.687E-04	6.964E-04	7.209E-04	7.416E-04	7.563E-04	7.643E-04	7.569E-03
3.00E-01--4.00E-01	7.176E-04	7.430E-04	7.676E-04	7.907E-04	8.109E-04	8.278E-04	8.398E-04	8.462E-04	8.881E-03
2.00E-01--3.00E-01	1.270E-03	1.290E-03	1.310E-03	1.331E-03	1.349E-03	1.365E-03	1.378E-03	1.383E-03	1.593E-02
1.00E-01--2.00E-01	3.357E-03	3.412E-03	3.466E-03	3.518E-03	3.563E-03	3.601E-03	3.628E-03	3.643E-03	4.198E-02
5.00E-02--1.00E-01	7.995E-03	8.087E-03	8.177E-03	8.261E-03	8.335E-03	8.392E-03	8.439E-03	8.463E-03	1.000E-01
2.00E-02--5.00E-02	2.128E-03	2.139E-03	2.149E-03	2.159E-03	2.167E-03	2.174E-03	2.178E-03	2.181E-03	2.669E-02

## 0.111 TO 1.108 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*\*2 FIUENCE AT 250.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0530
8.00E 00---1.00E 01	1.745E-05	1.752E-05	1.782E-05	1.841E-05	1.930E-05	2.052E-05	2.213E-05	2.419E-05	2.679E-05
6.50E 00---8.00E 00	3.674E-05	3.640E-05	3.702E-05	3.824E-05	4.008E-05	4.260E-05	4.591E-05	5.015E-05	5.549E-05
5.00E 00---6.50E 00	4.118E-04	4.135E-04	4.208E-04	4.339E-04	4.542E-04	4.820E-04	5.184E-04	5.649E-04	6.233E-04
4.00E 00---5.00E 00	1.087E-04	1.093E-04	1.114E-04	1.156E-04	1.218E-04	1.302E-04	1.412E-04	1.553E-04	1.731E-04
3.00E 00---4.00E 00	1.979E-04	1.987E-04	2.023E-04	2.092E-04	2.196E-04	2.337E-04	2.522E-04	2.759E-04	3.057E-04
2.50E 00---3.00E 00	4.247E-05	4.278E-05	4.402E-05	4.647E-05	5.016E-05	5.530E-05	6.217E-05	7.121E-05	8.297E-05
2.00E 00---2.50E 00	4.865E-05	4.896E-05	5.027E-05	5.289E-05	5.692E-05	6.263E-05	7.037E-05	8.098E-05	9.378E-05
1.66E 00---2.00E 00	5.748E-05	5.782E-05	5.920E-05	6.224E-05	6.687E-05	7.350E-05	8.254E-05	9.447E-05	1.098E-04
1.33E 00---1.66E 00	6.977E-05	7.019E-05	7.136E-05	7.555E-05	8.117E-05	8.932E-05	1.002E-04	1.146E-04	1.330E-04
1.00E 00---1.33E 00	9.206E-05	9.266E-05	9.517E-05	1.002E-04	1.079E-04	1.187E-04	1.333E-04	1.521E-04	1.759E-04
8.00E-01---1.00E 00	1.271E-04	1.280E-04	1.318E-04	1.392E-04	1.503E-04	1.655E-04	1.855E-04	2.109E-04	2.424E-04
6.00E-01---8.00E-01	1.896E-04	1.910E-04	1.967E-04	2.079E-04	2.244E-04	2.466E-04	2.752E-04	3.107E-04	3.531E-04
4.00E-01---6.00E-01	8.930E-04	8.98E-04	9.120E-04	9.414E-04	9.843E-04	1.041E-03	1.110E-03	1.193E-03	1.286E-03
3.00E-01---4.00E-01	1.150E-03	1.155E-03	1.178E-03	1.215E-03	1.268E-03	1.334E-03	1.410E-03	1.492E-03	1.579E-03
2.00E-01---3.00E-01	2.645E-03	2.647E-03	2.654E-03	2.67E-03	2.688E-03	2.715E-03	2.752E-03	2.798E-03	2.854E-03
1.00E-01---2.00E-01	6.939E-03	6.947E-03	6.979E-03	7.042E-03	7.130E-03	7.245E-03	7.384E-03	7.546E-03	7.728E-03
5.00E-02---1.00E-01	1.748E-02	1.750E-02	1.755E-02	1.768E-02	1.784E-02	1.804E-02	1.831E-02	1.861E-02	1.894E-02
2.00E-02---5.00E-02	4.927E-03	4.929E-03	4.937E-03	4.952E-03	4.972E-03	4.995E-03	5.030E-03	5.066E-03	5.104E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	3.002E-05	3.395E-05	3.861E-05	4.393E-05	4.971E-05	5.545E-05	6.035E-05	6.348E-05	4.021E-04
6.50E 00---8.00E 00	6.210E-05	7.016E-05	7.968E-05	9.053E-05	1.023E-04	1.140E-04	1.240E-04	1.304E-04	8.307E-04
5.00E 00---6.50E 00	6.953E-04	7.828E-04	8.858E-04	1.003E-03	1.130E-03	1.255E-03	1.361E-03	1.430E-03	9.266E-03
4.00E 00---5.00E 00	1.953E-04	2.226E-04	2.551E-04	2.925E-04	3.30E-04	3.732E-04	4.077E-04	4.297E-04	2.634E-03
3.00E 00---4.00E 00	3.427E-04	3.876E-04	4.407E-04	5.013E-04	5.655E-04	6.307E-04	6.855E-04	7.202E-04	4.582E-03
2.50E 00---3.00E 00	9.784E-05	1.165E-04	1.390E-04	1.652E-04	1.936E-04	2.217E-04	2.455E-04	2.604E-04	1.368E-03
2.00E 00---2.50E 00	1.105E-04	1.313E-04	1.562E-04	1.848E-04	2.153E-04	2.451E-04	2.699E-04	2.854E-04	1.533E-03
1.66E 00---2.00E 00	1.292E-04	1.535E-04	1.811E-04	2.130E-04	2.464E-04	2.783E-04	3.046E-04	3.207E-04	1.774E-03
1.33E 00---1.66E 00	1.559E-04	1.838E-04	2.168E-04	2.522E-04	2.891E-04	3.237E-04	3.515E-04	3.683E-04	2.113E-03
1.00E 00---1.33E 00	2.051E-04	2.397E-04	2.788E-04	3.208E-04	3.627E-04	4.006E-04	4.303E-04	4.479E-04	2.720E-03
8.00E-01---1.00E 00	2.799E-04	3.230E-04	3.703E-04	4.185E-04	4.650E-04	5.058E-04	5.368E-04	5.549E-04	3.619E-03
6.00E-01---8.00E-01	4.017E-04	4.51E-04	5.103E-04	5.652E-04	6.155E-04	6.583E-04	6.901E-04	7.084E-04	5.051E-03
4.00E-01---6.00E-01	1.387E-03	1.494E-03	1.602E-03	1.708E-03	1.805E-03	1.889E-03	1.953E-03	1.990E-03	1.722E-02
3.00E-01---4.00E-01	1.668E-03	1.758E-03	1.847E-03	1.933E-03	2.012E-03	2.080E-03	2.131E-03	2.161E-03	2.052E-02
2.00E-01---3.00E-01	2.920E-03	2.994E-03	3.074E-03	3.156E-03	3.234E-03	3.303E-03	3.356E-03	3.387E-03	3.682E-02
1.00E-01---2.00E-01	7.927E-03	8.135E-03	8.346E-03	8.551E-03	8.738E-03	8.895E-03	9.014E-03	9.082E-03	9.914E-02
5.00E-02---1.00E-01	1.928E-02	1.965E-02	2.000E-02	2.034E-02	2.065E-02	2.090E-02	2.109E-02	2.119E-02	2.411E-01
2.00E-02---5.00E-02	5.145E-03	5.187E-03	5.227E-03	5.265E-03	5.298E-03	5.325E-03	5.345E-03	5.356E-03	6.448E-02

## 0.111 TO 1.108 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 300.0 METERS

## (GAMMAS/PI EV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4550	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	1.920E-05	1.929E-05	1.966E-05	2.038E-05	2.148E-05	2.299E-05	2.502E-05	2.767E-05	3.108E-05
6.50E 00--8.00E 00	3.988E-05	4.007E-05	4.064E-05	4.235E-05	4.461E-05	4.775E-05	5.191E-05	5.735E-05	6.437E-05
5.00E 00--6.50E 00	4.537E-04	4.558E-04	4.642E-04	4.809E-04	5.059E-04	5.404E-04	5.861E-04	6.458E-04	7.224E-04
4.00E 00--5.00E 00	1.190E-04	1.195E-04	1.224E-04	1.276E-04	1.354E-04	1.458E-04	1.597E-04	1.778E-04	2.013E-04
3.00E 00--4.00E 00	2.174E-04	2.185E-04	2.229E-04	2.316E-04	2.444E-04	2.620E-04	2.853E-04	3.158E-04	3.550E-04
2.50E 00--3.00E 00	4.561E-05	4.600E-05	4.756E-05	5.062E-05	5.521E-05	6.164E-05	7.040E-05	8.220E-05	9.796E-05
2.00E 00--2.50E 00	5.270E-05	5.307E-05	5.461E-05	5.777E-05	6.270E-05	6.985E-05	7.979E-05	9.323E-05	1.111E-04
1.66E 00--2.00E 00	6.265E-05	6.304E-05	6.469E-05	6.817E-05	7.379E-05	8.214E-05	9.384E-05	1.097E-04	1.307E-04
1.33E 00--1.66E 00	7.627E-05	7.674E-05	7.875E-05	8.298E-05	8.986E-05	1.001E-04	1.144E-04	1.337E-04	1.592E-04
1.00E 00--1.33E 00	1.006E-04	1.013E-04	1.043E-04	1.105E-04	1.202E-04	1.342E-04	1.535E-04	1.792E-04	2.126E-04
8.00E 01--1.00E 01	1.389E-04	1.401E-04	1.450E-04	1.546E-04	1.690E-04	1.891E-04	2.161E-04	2.515E-04	2.965E-04
6.00E 01--8.00E 01	2.091E-04	2.110E-04	2.187E-04	2.337E-04	2.559E-04	2.862E-04	3.260E-04	3.766E-04	4.388E-04
4.00E 01--6.00E 01	1.045E-03	1.050E-03	1.071E-03	1.112E-03	1.172E-03	1.251E-03	1.351E-03	1.470E-03	1.606E-03
3.00E 01--4.00E 01	1.371E-03	1.379E-03	1.410E-03	1.469E-03	1.550E-03	1.649E-03	1.761E-03	1.883E-03	2.009E-03
2.00E 01--3.00E 01	3.347E-03	3.349E-03	3.358E-03	3.375E-03	3.401E-03	3.437E-03	3.486E-03	3.548E-03	3.627E-03
1.00E 01--2.00E 01	8.812E-03	8.824E-03	8.871E-03	8.960E-03	9.088E-03	9.253E-03	9.456E-03	9.694E-03	9.964E-03
5.00E 02--1.00E 01	2.258E-02	2.261E-02	2.270E-02	2.287E-02	2.312E-02	2.343E-02	2.382E-02	2.425E-02	2.476E-02
2.00E 02--5.00E 02	6.428E-03	6.431E-03	6.443E-03	6.465E-03	6.496E-03	6.535E-03	6.582E-03	6.636E-03	6.695E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2815	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	3.545E-05	4.094E-05	4.774E-05	5.586E-05	6.509E-05	7.470E-05	8.377E-05	8.917E-05	4.928E-04
6.50E 00--8.00E 00	7.331E-05	8.455E-05	9.842E-05	1.150E-04	1.338E-04	1.533E-04	1.709E-04	1.827E-04	1.017E-03
5.00E 00--6.50E 00	8.196E-04	9.414E-04	1.091E-03	1.269E-03	1.465E-03	1.677E-03	1.863E-03	1.989E-03	1.130E-02
4.00E 00--5.00E 00	2.316E-04	2.699E-04	3.177E-04	3.751E-04	4.405E-04	5.089E-04	5.704E-04	6.115E-04	3.253E-03
3.00E 00--4.00E 00	4.051E-04	4.681E-04	5.457E-04	6.381E-04	7.422E-04	8.499E-04	9.459E-04	1.010E-03	5.619E-03
2.50E 00--3.00E 00	1.188E-04	1.459E-04	1.802E-04	2.219E-04	2.695E-04	3.188E-04	3.624E-04	3.908E-04	1.762E-03
2.00E 00--2.50E 00	1.347E-04	1.650E-04	2.031E-04	2.488E-04	2.993E-04	3.518E-04	3.968E-04	4.258E-04	1.976E-03
1.66E 00--2.00E 00	1.561E-04	1.931E-04	2.365E-04	2.874E-04	3.432E-04	3.984E-04	4.522E-04	4.748E-04	2.286E-03
1.33E 00--1.66E 00	1.920E-04	2.334E-04	2.836E-04	3.411E-04	4.025E-04	4.615E-04	5.103E-04	5.403E-04	2.724E-03
1.00E 00--1.33E 00	2.550E-04	3.070E-04	3.678E-04	4.350E-04	5.037E-04	5.671E-04	6.178E-04	6.484E-04	3.508E-03
8.00E 01--1.00E 01	3.520E-04	4.174E-04	4.906E-04	5.746E-04	6.726E-04	7.091E-04	7.604E-04	7.904E-04	4.667E-03
6.00E 01--8.00E 01	5.118E-04	5.931E-04	6.789E-04	7.842E-04	8.435E-04	9.111E-04	9.820E-04	9.916E-04	6.512E-03
4.00E 01--6.00E 01	1.756E-03	1.914E-03	2.205E-03	2.529E-03	2.882E-03	3.251E-03	3.636E-03	3.845E-03	2.183E-02
3.00E 01--4.00E 01	2.139E-03	2.269E-03	2.400E-03	2.649E-03	2.755E-03	2.836E-03	2.836E-03	2.884E-03	2.625E-02
2.00E 01--3.00E 01	3.723E-03	3.833E-03	3.954E-03	4.080E-03	4.203E-03	4.312E-03	4.397E-03	4.449E-03	4.110E-02
1.00E 01--2.00E 01	1.026E-02	1.058E-02	1.090E-02	1.121E-02	1.151E-02	1.176E-02	1.194E-02	1.205E-02	1.284E-01
5.00E 02--1.00E 01	2.529E-02	2.584E-02	2.640E-02	2.693E-02	2.741E-02	2.781E-02	2.811E-02	2.828E-02	3.162E-01
2.00E 02--5.00E 02	6.757E-03	6.821E-03	6.883E-03	6.941E-03	6.993E-03	7.036E-03	7.067E-03	7.085E-03	8.465E-02

## 0.111 TO 1.108 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*\*2 FLUENCE AT 400.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.914E-05	1.925E-05	1.968E-05	2.053E-05	2.180E-05	2.360E-05	2.604E-05	2.934E-05	3.377E-05
6.50E 00---8.00E 00	3.972E-05	3.995E-05	4.086E-05	4.265E-05	4.531E-05	4.902E-05	5.404E-05	6.081E-05	6.989E-05
5.00E 00---6.50E 00	4.528E-04	4.553E-04	4.686E-04	4.842E-04	5.142E-04	5.500E-04	6.010E-04	6.842E-04	7.931E-04
4.00E 00---5.00E 00	1.167E-04	1.176E-04	1.213E-04	1.280E-04	1.375E-04	1.500E-04	1.666E-04	1.891E-04	2.197E-04
3.00E 00---4.00E 00	2.156E-04	2.170E-04	2.225E-04	2.331E-04	2.484E-04	2.693E-04	2.975E-04	3.354E-04	3.845E-04
2.50E 00---3.00E 00	4.348E-05	4.398E-05	4.599E-05	4.985E-05	5.536E-05	6.309E-05	7.388E-05	8.907E-05	1.105E-04
2.00E 00---2.50E 00	5.169E-05	5.206E-05	5.430E-05	5.707E-05	6.272E-05	7.136E-05	8.390E-05	1.016E-04	1.263E-04
1.66E 00---2.00E 00	6.266E-05	6.293E-05	6.430E-05	6.763E-05	7.385E-05	8.403E-05	9.916E-05	1.205E-04	1.501E-04
1.33E 00---1.66E 00	7.674E-05	7.705E-05	7.866E-05	8.270E-05	9.040E-05	1.031E-04	1.220E-04	1.485E-04	1.851E-04
1.00E 00---1.33E 00	1.002E-04	1.009E-04	1.041E-04	1.110E-04	1.227E-04	1.407E-04	1.666E-04	2.028E-04	2.525E-04
8.00E 01---1.00E 00	1.364E-04	1.384E-04	1.449E-04	1.574E-04	1.763E-04	2.029E-04	2.402E-04	2.919E-04	3.621E-04
6.00E 01---8.00E 01	2.086E-04	2.113E-04	2.225E-04	2.435E-04	2.742E-04	3.168E-04	3.752E-04	4.539E-04	5.561E-04
4.00E 01---6.00E 01	1.186E-03	1.194E-03	1.223E-03	1.285E-03	1.371E-03	1.493E-03	1.651E-03	1.843E-03	2.065E-03
3.00E 01---4.00E 01	1.606E-03	1.620E-03	1.676E-03	1.779E-03	1.920E-03	2.090E-03	2.281E-03	2.482E-03	2.686E-03
2.00E 01---3.00E 01	4.444E-03	4.447E-03	4.458E-03	4.478E-03	4.509E-03	4.554E-03	4.617E-03	4.704E-03	4.822E-03
1.00E 01---2.00E 01	1.177E-02	1.177E-02	1.187E-02	1.201E-02	1.221E-02	1.248E-02	1.281E-02	1.320E-02	1.365E-02
5.00E 02---1.00E 01	3.121E-02	3.124E-02	3.143E-02	3.169E-02	3.210E-02	3.263E-02	3.328E-02	3.405E-02	3.490E-02
2.00E 02---5.00E 02	9.042E-03	9.046E-03	9.067E-03	9.104E-03	9.156E-03	9.224E-03	9.305E-03	9.398E-03	9.501E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	3.971E-05	4.742E-05	5.825E-05	7.203E-05	8.921E-05	1.090E-04	1.287E-04	1.432E-04	6.055E-04
6.50E 00---8.00E 00	8.206E-05	8.832E-05	1.199E-04	1.478E-04	1.827E-04	2.227E-04	2.625E-04	2.917E-04	1.246E-03
5.00E 00---6.50E 00	9.149E-04	1.090E-03	1.320E-03	1.617E-03	1.984E-03	2.504E-03	2.818E-03	3.121E-03	1.373E-02
4.00E 00---5.00E 00	2.615E-04	3.179E-04	3.934E-04	4.925E-04	6.171E-04	7.610E-04	9.036E-04	1.007E-03	4.069E-03
3.00E 00---4.00E 00	4.551E-04	5.469E-04	6.633E-04	8.254E-04	1.020E-03	1.240E-03	1.456E-03	1.611E-03	6.912E-03
2.50E 00---3.00E 00	1.408E-04	1.831E-04	2.414E-04	3.191E-04	4.165E-04	5.270E-04	6.332E-04	7.077E-04	2.414E-03
2.00E 00---2.50E 00	1.609E-04	2.050E-04	2.747E-04	3.608E-04	4.653E-04	5.904E-04	6.877E-04	7.612E-04	2.709E-03
1.66E 00---2.00E 00	1.910E-04	2.475E-04	3.233E-04	4.200E-04	5.340E-04	6.546E-04	7.631E-04	8.353E-04	3.136E-03
1.33E 00---1.66E 00	2.353E-04	3.035E-04	3.927E-04	5.026E-04	6.271E-04	7.534E-04	8.623E-04	9.325E-04	3.737E-03
1.00E 00---1.33E 00	3.198E-04	4.081E-04	5.182E-04	6.664E-04	8.333E-04	9.142E-04	1.021E-03	1.088E-03	4.815E-03
8.00E 01---1.00E 00	4.540E-04	5.682E-04	7.017E-04	8.467E-04	9.915E-04	1.122E-03	1.244E-03	1.285E-03	6.404E-03
6.00E 01---8.00E 01	6.814E-04	8.255E-04	9.805E-04	1.136E-03	1.281E-03	1.406E-03	1.501E-03	1.558E-03	5.928E-03
4.00E 01---6.00E 01	2.311E-03	2.572E-03	2.840E-03	3.107E-03	3.362E-03	3.593E-03	3.778E-03	3.893E-03	2.882E-02
3.00E 01---4.00E 01	2.891E-03	3.097E-03	3.308E-03	3.523E-03	3.733E-03	3.923E-03	4.075E-03	4.167E-03	3.523E-02
2.00E 01---3.00E 01	4.972E-03	5.153E-03	5.360E-03	5.582E-03	5.804E-03	6.007E-03	6.169E-03	6.268E-03	6.343E-02
1.00E 01---2.00E 01	1.415E-02	1.469E-02	1.525E-02	1.582E-02	1.635E-02	1.687E-02	1.717E-02	1.738E-02	1.774E-01
5.00E 02---1.00E 01	3.584E-02	3.683E-02	3.783E-02	3.881E-02	3.970E-02	4.046E-02	4.103E-02	4.136E-02	4.483E-01
2.00E 02---5.00E 02	9.610E-03	9.723E-03	9.835E-03	9.941E-03	1.004E-02	1.011E-02	1.017E-02	1.021E-02	1.204E-01

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-0.0000	MU=-0.9854	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	1.610E-05	1.620E-05	1.622E-05	1.747E-05	1.833E-05	2.032E-05	2.266E-05	2.589E-05	3.038E-05
5.00E 00--6.50E 00	3.333E-05	3.356E-05	3.447E-05	3.621E-05	3.875E-05	4.225E-05	4.704E-05	5.345E-05	6.285E-05
3.50E 00--5.00E 00	3.809E-04	3.834E-04	3.932E-04	4.121E-04	4.398E-04	4.782E-04	5.308E-04	6.031E-04	7.031E-04
2.00E 00--3.50E 00	9.540E-05	9.657E-05	1.010E-04	1.085E-04	1.181E-04	1.300E-04	1.454E-04	1.642E-04	1.885E-04
1.50E 00--2.00E 00	1.795E-04	1.810E-04	1.871E-04	1.980E-04	2.129E-04	2.324E-04	2.592E-04	2.962E-04	3.483E-04
1.00E 00--1.50E 00	3.480E-05	3.539E-05	3.767E-05	4.174E-05	4.724E-05	5.451E-05	6.504E-05	8.039E-05	1.033E-04
0.50E 00--1.00E 00	4.373E-05	4.596E-05	4.512E-05	4.786E-05	5.294E-05	6.131E-05	7.401E-05	9.246E-05	1.192E-04
0.25E 00--0.50E 00	5.486E-05	5.795E-05	5.500E-05	5.677E-05	6.195E-05	7.202E-05	8.790E-05	1.107E-04	1.431E-04
0.125E 00--0.25E 00	6.770E-05	6.755E-05	6.760E-05	6.962E-05	7.610E-05	8.893E-05	1.091E-04	1.380E-04	1.789E-04
0.0625E 00--0.125E 00	8.608E-05	8.647E-05	8.833E-05	9.428E-05	1.054E-04	1.235E-04	1.516E-04	1.918E-04	2.497E-04
0.03125E 00--0.0625E 00	1.131E-04	1.149E-04	1.222E-04	1.358E-04	1.555E-04	1.835E-04	2.238E-04	2.832E-04	3.695E-04
0.015625E 00--0.03125E 00	1.736E-04	1.770E-04	1.905E-04	2.149E-04	2.487E-04	2.956E-04	3.629E-04	4.593E-04	5.933E-04
0.0078125E 00--0.015625E 00	1.148E-03	1.156E-03	1.189E-03	1.256E-03	1.361E-03	1.511E-03	1.710E-03	1.958E-03	2.247E-03
0.00390625E 00--0.0078125E 00	1.593E-03	1.611E-03	1.689E-03	1.831E-03	2.025E-03	2.260E-03	2.518E-03	2.782E-03	3.041E-03
0.001953125E 00--0.00390625E 00	5.020E-03	5.022E-03	5.032E-03	5.051E-03	5.077E-03	5.117E-03	5.178E-03	5.272E-03	5.408E-03
0.0009765625E 00--0.001953125E 00	1.333E-02	1.336E-02	1.345E-02	1.363E-02	1.373E-02	1.423E-02	1.466E-02	1.516E-02	1.575E-02
0.00048828125E 00--0.0009765625E 00	3.648E-02	3.653E-02	3.674E-02	3.712E-02	3.766E-02	3.838E-02	3.925E-02	4.028E-02	4.146E-02
0.000244140625E 00--0.00048828125E 00	1.073E-02	1.074E-02	1.076E-02	1.081E-02	1.088E-02	1.097E-02	1.108E-02	1.121E-02	1.135E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	6.257E-04
6.50E 00--8.00E 00	3.667E-05	4.553E-05	5.809E-05	7.577E-05	9.92E-05	1.307E-04	1.646E-04	1.921E-04	1.283E-03
5.00E 00--6.50E 00	7.571E-05	9.378E-05	1.193E-04	1.550E-04	2.038E-04	2.657E-04	3.337E-04	3.885E-04	1.398E-02
3.50E 00--5.00E 00	8.417E-04	1.035E-03	1.305E-03	1.680E-03	2.187E-03	2.823E-03	3.521E-03	4.078E-03	4.292E-03
2.00E 00--3.50E 00	2.433E-04	3.071E-04	3.981E-04	5.277E-04	7.068E-04	9.357E-04	1.185E-03	1.383E-03	7.150E-03
1.50E 00--2.00E 00	4.215E-04	5.244E-04	6.693E-04	8.722E-04	1.146E-03	1.488E-03	1.854E-03	2.140E-03	2.796E-03
1.00E 00--1.50E 00	1.373E-04	1.881E-04	2.636E-04	3.733E-04	5.237E-04	7.099E-04	9.036E-04	1.049E-03	3.141E-03
0.50E 00--1.00E 00	1.584E-04	2.170E-04	3.037E-04	4.268E-04	5.894E-04	7.819E-04	9.739E-04	1.113E-03	3.638E-03
0.25E 00--0.50E 00	1.904E-04	2.606E-04	3.628E-04	5.034E-04	6.807E-04	8.799E-04	1.069E-03	1.200E-03	4.339E-03
0.125E 00--0.25E 00	2.384E-04	3.255E-04	4.484E-04	6.101E-04	8.033E-04	1.008E-03	1.191E-03	1.313E-03	5.592E-03
0.0625E 00--0.125E 00	3.332E-04	4.504E-04	6.056E-04	7.953E-04	1.005E-03	1.210E-03	1.381E-03	1.497E-03	7.430E-03
0.03125E 00--0.0625E 00	4.897E-04	6.468E-04	8.372E-04	1.049E-03	1.264E-03	1.459E-03	1.612E-03	1.703E-03	1.035E-02
0.015625E 00--0.03125E 00	7.644E-04	9.662E-04	1.185E-03	1.405E-03	1.610E-03	1.788E-03	1.922E-03	2.038E-03	3.205E-02
0.0078125E 00--0.015625E 00	2.568E-03	2.908E-03	3.256E-03	3.599E-03	3.935E-03	4.248E-03	4.510E-03	4.678E-03	4.005E-02
0.00390625E 00--0.0078125E 00	3.293E-03	3.546E-03	3.810E-03	4.068E-03	4.371E-03	4.637E-03	4.852E-03	4.985E-03	7.197E-02
0.001953125E 00--0.00390625E 00	5.593E-03	5.826E-03	6.099E-03	6.399E-03	6.705E-03	6.990E-03	7.222E-03	7.367E-03	2.064E-01
0.0009765625E 00--0.001953125E 00	1.042E-02	1.171E-02	1.261E-02	1.349E-02	1.444E-02	1.500E-02	1.561E-02	1.605E-02	5.352E-01
0.00048828125E 00--0.0009765625E 00	4.275E-02	4.412E-02	4.554E-02	4.693E-02	4.821E-02	4.932E-02	5.016E-02	5.065E-02	1.441E-01
0.000244140625E 00--0.00048828125E 00	1.150E-02	1.166E-02	1.182E-02	1.197E-02	1.210E-02	1.221E-02	1.229E-02	1.234E-02	



## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=0.0000	MU=0.0950	MU=0.0446	MU=0.0656	MU=0.0750	MU=0.06179	MU=0.0480	MU=0.02816	MU=0.0950
6.50E 00---1.00E 00	1.212E-05	1.221E-05	1.257E-05	1.325E-05	1.425E-05	1.563E-05	1.756E-05	2.028E-05	2.418E-05
5.00E 00---1.00E 00	2.496E-05	2.518E-05	2.602E-05	2.755E-05	2.969E-05	3.255E-05	3.647E-05	4.201E-05	4.999E-05
3.50E 00---1.00E 00	2.864E-04	2.886E-04	2.974E-04	3.137E-04	3.368E-04	3.681E-04	4.112E-04	4.719E-04	5.583E-04
2.00E 00---1.00E 00	6.825E-05	6.965E-05	7.472E-05	8.273E-05	9.157E-05	1.011E-04	1.130E-04	1.308E-04	1.583E-04
1.50E 00---1.00E 00	1.326E-04	1.342E-04	1.404E-04	1.509E-04	1.639E-04	1.798E-04	2.011E-04	2.320E-04	2.775E-04
1.00E 00---1.00E 00	2.439E-05	2.507E-05	2.788E-05	3.166E-05	3.653E-05	4.252E-05	5.025E-05	6.047E-05	7.422E-05
0.50E 00---1.00E 00	3.396E-05	3.401E-05	3.478E-05	3.607E-05	3.988E-05	4.698E-05	5.825E-05	7.422E-05	9.946E-05
0.25E 00---1.00E 00	4.512E-05	4.458E-05	4.312E-05	4.255E-05	4.583E-05	5.473E-05	6.963E-05	9.087E-05	1.209E-04
0.125E 00---1.00E 00	5.630E-05	5.548E-05	5.342E-05	5.216E-05	5.636E-05	6.800E-05	8.728E-05	1.145E-04	1.532E-04
0.0625E 00---1.00E 00	6.813E-05	6.801E-05	6.877E-05	7.151E-05	8.043E-05	9.721E-05	1.232E-04	1.614E-04	2.188E-04
0.03125E 00---1.00E 00	8.257E-05	8.446E-05	9.195E-05	1.053E-04	1.235E-04	1.486E-04	1.856E-04	2.440E-04	3.353E-04
0.015625E 00---1.00E 00	1.261E-04	1.301E-04	1.433E-04	1.707E-04	2.031E-04	2.470E-04	3.139E-04	4.159E-04	5.672E-04
0.0078125E 00---1.00E 00	1.007E-03	1.014E-03	1.045E-03	1.111E-03	1.218E-03	1.378E-03	1.597E-03	1.875E-03	2.204E-03
0.00390625E 00---1.00E 00	1.419E-03	1.441E-03	1.533E-03	1.702E-03	1.922E-03	2.212E-03	2.513E-03	2.813E-03	3.095E-03
0.001953125E 00---1.00E 00	5.110E-03	5.112E-03	5.120E-03	5.133E-03	5.149E-03	5.175E-03	5.221E-03	5.303E-03	5.437E-03
0.0009765625E 00---1.00E 00	1.356E-02	1.359E-02	1.370E-02	1.389E-02	1.418E-02	1.455E-02	1.502E-02	1.559E-02	1.625E-02
0.00048828125E 00---1.00E 00	3.817E-02	3.823E-02	3.846E-02	3.890E-02	3.952E-02	4.034E-02	4.135E-02	4.254E-02	4.391E-02
0.000244140625E 00---1.00E 00	1.136E-02	1.137E-02	1.140E-02	1.146E-02	1.154E-02	1.165E-02	1.177E-02	1.192E-02	1.209E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU=0.0950	MU=0.02816	MU=0.04580	MU=0.06179	MU=0.0750	MU=0.0656	MU=0.0446	MU=0.09894	
6.50E 00---1.00E 00	2.984E-05	3.817E-05	5.065E-05	6.954E-05	9.772E-05	1.374E-04	1.859E-04	2.292E-04	5.805E-04
5.00E 00---1.00E 00	6.156E-05	7.851E-05	1.038E-04	1.419E-04	1.985E-04	2.778E-04	3.743E-04	4.599E-04	1.185E-03
3.50E 00---1.00E 00	6.824E-04	8.625E-04	1.128E-03	1.523E-03	2.103E-03	2.908E-03	3.874E-03	4.727E-03	1.274E-02
2.00E 00---1.00E 00	1.995E-04	2.606E-04	3.522E-04	4.931E-04	7.070E-04	1.009E-03	1.372E-03	1.684E-03	4.071E-03
1.50E 00---1.00E 00	3.441E-04	4.416E-04	5.877E-04	8.052E-04	1.127E-03	1.567E-03	2.082E-03	2.518E-03	6.636E-03
1.00E 00---1.00E 00	1.178E-04	1.690E-04	2.507E-04	3.797E-04	5.725E-04	8.317E-04	1.122E-03	1.355E-03	2.905E-03
0.50E 00---1.00E 00	1.371E-04	1.971E-04	2.932E-04	4.410E-04	6.512E-04	9.178E-04	1.201E-03	1.418E-03	3.268E-03
0.25E 00---1.00E 00	1.668E-04	2.404E-04	3.568E-04	5.289E-04	7.595E-04	1.033E-03	1.304E-03	1.502E-03	3.789E-03
0.125E 00---1.00E 00	2.127E-04	3.070E-04	4.508E-04	6.519E-04	9.032E-04	1.179E-03	1.434E-03	1.608E-03	4.521E-03
0.0625E 00---1.00E 00	3.072E-04	4.402E-04	6.269E-04	8.648E-04	1.134E-03	1.403E-03	1.627E-03	1.768E-03	5.827E-03
0.03125E 00---1.00E 00	4.707E-04	6.564E-04	8.877E-04	1.152E-03	1.421E-03	1.664E-03	1.853E-03	1.965E-03	7.734E-03
0.015625E 00---1.00E 00	7.693E-04	1.012E-03	1.277E-03	1.541E-03	1.784E-03	1.991E-03	2.152E-03	2.250E-03	1.075E-02
0.0078125E 00---1.00E 00	2.566E-03	2.944E-03	3.325E-03	3.702E-03	4.072E-03	4.428E-03	4.737E-03	4.944E-03	3.195E-02
0.00390625E 00---1.00E 00	3.360E-03	3.622E-03	3.901E-03	4.208E-03	4.532E-03	4.843E-03	5.099E-03	5.258E-03	4.043E-02
0.001953125E 00---1.00E 00	5.631E-03	5.886E-03	6.192E-03	6.533E-03	6.886E-03	7.220E-03	7.497E-03	7.672E-03	7.307E-02
0.0009765625E 00---1.00E 00	1.701E-02	1.784E-02	1.873E-02	1.964E-02	2.052E-02	2.131E-02	2.193E-02	2.231E-02	2.142E-01
0.00048828125E 00---1.00E 00	4.542E-02	4.705E-02	4.874E-02	5.042E-02	5.198E-02	5.346E-02	5.437E-02	5.499E-02	5.692E-01
0.000244140625E 00---1.00E 00	1.226E-02	1.245E-02	1.264E-02	1.281E-02	1.297E-02	1.311E-02	1.321E-02	1.327E-02	1.536E-01

0.111 TO 1.108 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 900.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	3.430E-06	3.485E-06	3.633E-06	4.029E-06	4.421E-06	4.881E-06	5.500E-06	6.454E-06	7.977E-06
5.00E 00---6.50E 00	6.703E-06	6.876E-06	7.497E-06	8.427E-06	9.357E-06	1.027E-05	1.141E-05	1.326E-05	1.639E-05
3.50E 00---5.00E 00	7.988E-05	8.142E-05	8.706E-05	9.579E-05	1.051E-04	1.152E-04	1.283E-04	1.491E-04	1.827E-04
2.00E 00---3.50E 00	9.717E-06	1.184E-05	1.829E-05	2.651E-05	3.242E-05	3.435E-05	3.466E-05	3.887E-05	5.094E-05
1.50E 00---2.00E 00	3.040E-05	3.229E-05	3.869E-05	4.723E-05	5.379E-05	5.791E-05	6.233E-05	7.193E-05	9.102E-05
1.00E 00---1.50E 00	2.590E-06	3.616E-06	6.607E-06	1.037E-05	1.309E-05	1.427E-05	1.582E-05	2.072E-05	3.079E-05
5.00E 00---1.00E 01	1.338E-05	1.299E-05	1.172E-05	1.043E-05	1.072E-05	1.359E-05	1.926E-05	2.738E-05	3.833E-05
4.00E 00---5.00E 00	2.467E-05	2.294E-05	1.66E-05	1.033E-05	9.173E-06	1.469E-05	2.469E-05	3.613E-05	4.870E-05
3.00E 00---4.00E 00	3.247E-05	2.992E-05	2.106E-05	1.173E-05	1.094E-05	1.906E-05	3.229E-05	4.688E-05	6.357E-05
2.00E 00---3.00E 00	3.004E-05	2.844E-05	2.347E-05	1.926E-05	2.163E-05	3.141E-05	4.628E-05	6.546E-05	9.612E-05
1.50E 00---2.00E 00	1.538E-05	1.734E-05	2.44E-05	3.491E-05	4.519E-05	5.522E-05	6.981E-05	1.012E-04	1.672E-04
1.00E 00---1.50E 00	2.215E-05	2.215E-05	3.795E-05	6.278E-05	8.174E-05	9.595E-05	1.332E-04	2.089E-04	3.475E-04
5.00E 00---1.00E 01	5.085E-04	5.111E-04	5.245E-04	5.592E-04	6.301E-04	7.537E-04	9.411E-04	1.193E-03	1.494E-03
4.00E 00---5.00E 00	7.145E-04	7.350E-04	8.226E-04	9.888E-04	1.223E-03	1.508E-03	1.804E-03	2.074E-03	2.292E-03
3.00E 00---4.00E 00	3.810E-03	3.811E-03	3.813E-03	3.808E-03	3.792E-03	3.768E-03	3.752E-03	3.767E-03	3.834E-03
2.00E 00---3.00E 00	9.895E-03	9.916E-03	1.000E-02	1.017E-02	1.040E-02	1.071E-02	1.110E-02	1.158E-02	1.214E-02
1.00E 00---2.00E 00	2.958E-02	2.963E-02	2.984E-02	3.022E-02	3.077E-02	3.150E-02	3.240E-02	3.348E-02	3.474E-02
5.00E 00---1.00E 01	9.010E-03	9.016E-03	9.044E-03	9.095E-03	9.167E-03	9.262E-03	9.377E-03	9.512E-03	9.663E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	3.325E-04
6.50E 00---8.00E 00	1.040E-05	1.430E-05	2.095E-05	3.308E-05	5.623E-05	9.946E-05	1.720E-04	2.593E-04	3.325E-04
5.00E 00---6.50E 00	2.143E-05	2.939E-05	4.266E-05	6.673E-05	1.126E-04	1.983E-04	3.392E-04	5.065E-04	6.661E-04
3.50E 00---5.00E 00	2.357E-04	3.184E-04	4.585E-04	6.961E-04	1.146E-03	1.966E-03	3.291E-03	4.844E-03	6.790E-03
2.00E 00---3.50E 00	7.194E-05	1.029E-04	1.519E-04	2.448E-04	4.342E-04	7.926E-04	1.356E-03	1.973E-03	2.501E-03
1.50E 00---2.00E 00	1.221E-04	1.694E-04	2.474E-04	3.922E-04	6.692E-04	1.160E-03	1.894E-03	2.671E-03	3.788E-03
1.00E 00---1.50E 00	4.771E-05	7.636E-05	1.310E-04	2.417E-04	4.531E-04	8.071E-04	1.290E-03	1.750E-03	2.262E-03
5.00E 00---1.00E 01	5.592E-05	9.065E-05	1.627E-04	3.023E-04	5.433E-04	9.038E-04	1.356E-03	1.759E-03	2.556E-03
4.00E 00---5.00E 00	6.956E-05	1.161E-04	2.142E-04	3.909E-04	6.640E-04	1.028E-03	1.433E-03	1.766E-03	2.970E-03
3.00E 00---4.00E 00	9.413E-05	1.626E-04	2.970E-04	5.165E-04	8.185E-04	1.172E-03	1.518E-03	1.766E-03	3.547E-03
2.00E 00---3.00E 00	1.567E-04	2.726E-04	4.643E-04	7.325E-04	1.049E-03	1.365E-03	1.623E-03	1.780E-03	4.568E-03
1.00E 00---1.50E 00	2.867E-04	4.717E-04	7.196E-04	1.008E-03	1.299E-03	1.549E-03	1.727E-03	1.823E-03	6.035E-03
5.00E 00---1.00E 01	5.531E-04	8.086E-04	1.082E-03	1.339E-03	1.559E-03	1.738E-03	1.877E-03	1.966E-03	8.335E-03
4.00E 00---5.00E 00	1.818E-03	2.135E-03	2.489E-03	2.701E-03	2.970E-03	3.252E-03	3.530E-03	3.737E-03	2.200E-02
3.00E 00---4.00E 00	2.465E-03	2.624E-03	2.811E-03	3.051E-03	3.330E-03	3.606E-03	3.828E-03	3.959E-03	2.917E-02
2.00E 00---3.00E 00	3.967E-03	4.164E-03	4.411E-03	4.691E-03	4.985E-03	5.275E-03	5.520E-03	5.682E-03	5.259E-02
1.00E 00---2.00E 00	1.350E-02	1.350E-02	1.459E-02	1.510E-02	1.591E-02	1.664E-02	1.723E-02	1.759E-02	1.617E-01
5.00E 00---1.00E 01	3.614E-02	3.767E-02	3.928E-02	4.090E-02	4.244E-02	4.379E-02	4.484E-02	4.546E-02	4.539E-01
2.00E 00---5.00E 00	9.829E-03	1.000E-02	1.018E-02	1.035E-02	1.050E-02	1.063E-02	1.073E-02	1.078E-02	1.231E-01

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=0.9894	MU=0.9894	MU=0.9894	MU=0.9894	MU=0.9894	MU=0.9894	MU=0.9894	MU=0.9894	MU=0.9894
6.50E 00---8.00E 00	7.790E-07	6.193E-07	7.560E-07	9.388E-07	1.080E-06	1.163E-06	1.244E-06	1.333E-06	1.429E-06
5.00E 00---6.50E 00	1.272E-05	1.384E-05	1.413E-06	2.021E-06	2.436E-06	2.535E-06	2.516E-06	2.506E-06	2.506E-06
4.00E 00---5.00E 00	-6.839E-06	-4.672E-06	9.774E-07	8.246E-06	1.049E-05	1.007E-05	5.465E-05	5.820E-05	1.095E-05
3.00E 00---4.00E 00	1.374E-06	5.976E-07	5.725E-06	1.268E-05	1.581E-05	1.451E-05	1.278E-05	1.348E-05	2.062E-05
2.50E 00---3.00E 00	3.354E-06	-2.330E-06	3.184E-07	3.595E-06	4.287E-06	3.678E-06	2.533E-06	3.542E-06	7.994E-06
2.00E 00---2.50E 00	5.784E-06	5.347E-06	3.782E-06	1.578E-06	1.153E-06	2.085E-06	4.897E-06	8.198E-06	1.139E-05
1.66E 00---2.00E 00	1.545E-05	1.360E-05	6.014E-06	-2.273E-07	-1.783E-06	1.274E-06	8.007E-06	1.358E-05	1.518E-05
1.33E 00---1.66E 00	2.140E-05	1.863E-05	7.540E-06	-1.537E-06	2.781E-06	1.995E-06	1.153E-05	1.803E-05	1.932E-05
1.00E 00---1.33E 00	1.556E-05	1.365E-05	6.285E-06	1.360E-06	2.237E-06	7.114E-06	1.498E-05	2.086E-05	2.919E-05
8.00E-01---1.00E 01	-5.248E-06	-3.442E-06	2.033E-06	1.009E-05	1.704E-05	1.104E-05	1.805E-05	2.750E-05	6.141E-05
6.00E-01---8.00E-01	-1.638E-05	-1.120E-05	3.298E-06	2.249E-05	2.933E-05	3.110E-05	3.950E-05	7.883E-05	1.596E-04
4.00E-01---6.00E-01	2.233E-04	2.231E-04	2.244E-04	2.553E-04	2.688E-04	3.389E-04	4.556E-04	6.188E-04	8.146E-04
3.00E-01---4.00E-01	2.930E-04	3.058E-04	3.619E-04	4.718E-04	6.322E-04	8.290E-04	1.029E-03	1.197E-03	1.312E-03
2.00E-01---3.00E-01	2.203E-03	2.204E-03	2.203E-03	2.194E-03	2.169E-03	2.130E-03	2.091E-03	2.070E-03	2.087E-03
1.00E-01---2.00E-01	5.511E-03	5.523E-03	5.575E-03	5.671E-03	5.808E-03	5.988E-03	6.213E-03	6.485E-03	6.804E-03
5.00E-02---1.00E-01	1.696E-02	1.699E-02	1.711E-02	1.734E-02	1.767E-02	1.810E-02	1.864E-02	1.929E-02	2.004E-02
2.00E-02---5.00E-02	5.207E-03	5.211E-03	5.228E-03	5.258E-03	5.301E-03	5.357E-03	5.426E-03	5.507E-03	5.598E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.578E-04
6.50E 00---8.00E 00	2.584E-06	3.786E-06	5.935E-06	1.053E-05	2.159E-05	4.935E-05	1.113E-04	2.116E-04	3.083E-04
5.00E 00---6.50E 00	5.380E-06	7.891E-06	1.204E-05	2.085E-05	4.272E-05	9.685E-05	2.152E-04	4.009E-04	2.914E-03
4.00E 00---5.00E 00	2.020E-05	3.165E-05	1.256E-04	2.119E-04	4.160E-04	9.031E-04	1.941E-03	3.541E-03	1.261E-03
3.00E 00---4.00E 00	3.274E-05	4.772E-05	7.135E-05	1.280E-04	2.751E-04	4.292E-04	1.213E-03	1.989E-03	1.772E-03
2.50E 00---3.00E 00	1.454E-05	2.384E-05	4.477E-05	1.024E-04	2.425E-04	5.230E-04	9.679E-04	1.455E-03	1.343E-03
2.00E 00---2.50E 00	1.537E-05	2.640E-05	6.083E-05	1.450E-04	3.150E-04	6.036E-04	1.005E-03	1.401E-03	1.524E-03
1.66E 00---2.00E 00	1.754E-05	3.511E-05	9.055E-05	2.092E-04	4.103E-04	7.971E-04	1.038E-03	1.335E-03	1.772E-03
1.33E 00---1.66E 00	2.530E-05	5.800E-05	1.442E-04	3.014E-04	5.282E-04	7.983E-04	1.065E-03	1.260E-03	2.117E-03
1.00E 00---1.33E 00	5.624E-05	1.264E-04	2.599E-04	4.374E-04	6.915E-04	9.145E-04	1.081E-03	1.170E-03	2.718E-03
8.00E-01---1.00E 01	1.364E-04	2.632E-04	6.445E-04	8.429E-04	9.977E-04	1.088E-03	1.123E-03	1.178E-03	3.569E-03
6.00E-01---8.00E-01	3.147E-04	4.956E-04	6.809E-04	8.418E-04	9.653E-04	1.057E-03	1.128E-03	1.178E-03	4.888E-03
4.00E-01---6.00E-01	1.018E-03	1.203E-03	1.355E-03	1.479E-03	1.599E-03	1.741E-03	1.901E-03	2.031E-03	1.176E-02
3.00E-01---4.00E-01	1.382E-03	1.438E-03	1.521E-03	1.650E-03	1.811E-03	1.967E-03	2.079E-03	2.135E-03	1.601E-02
2.00E-01---3.00E-01	2.150E-03	2.254E-03	2.387E-03	2.536E-03	2.691E-03	2.845E-03	2.982E-03	3.075E-03	2.890E-02
1.00E-01---2.00E-01	7.176E-03	7.592E-03	8.044E-03	8.517E-03	8.983E-03	9.409E-03	9.750E-03	9.959E-03	9.081E-01
5.00E-02---1.00E-01	2.089E-02	2.181E-02	2.278E-02	2.377E-02	2.470E-02	2.553E-02	2.617E-02	2.655E-02	2.624E-01
2.00E-02---5.00E-02	5.697E-03	5.801E-03	5.906E-03	6.008E-03	6.101E-03	6.180E-03	6.238E-03	6.272E-03	7.136E-02

## 0.111 TO 1.108 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=1.0000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
6.50E 00--8.00E 00	2.431E-08	8.400E-09	9.507E-08	2.145E-07	2.698E-07	2.551E-07	2.58E-07	2.24E-07	3.381E-07
5.00E 00--6.50E 00	-3.502E-07	-2.282E-07	9.476E-08	5.223E-07	6.604E-07	6.151E-07	3.713E-07	3.041E-07	7.071E-07
4.00E 00--5.00E 00	-9.321E-07	-8.556E-08	2.152E-06	5.297E-06	6.550E-06	6.060E-06	4.904E-06	4.01E-06	7.578E-06
3.00E 00--4.00E 00	-7.236E-06	-5.758E-06	-1.154E-06	2.180E-06	5.243E-06	2.427E-06	-5.604E-07	-1.034E-06	1.252E-06
2.50E 00--3.00E 00	-5.563E-06	-4.207E-06	6.149E-09	3.104E-06	5.758E-06	3.151E-06	6.724E-07	9.449E-07	3.712E-06
2.00E 00--2.50E 00	-3.272E-06	-2.556E-06	-3.725E-07	1.119E-06	2.193E-06	5.608E-07	-4.452E-07	1.002E-07	2.103E-06
1.66E 00--2.00E 00	2.952E-06	2.635E-06	1.291E-06	-3.237E-08	-6.702E-07	-1.204E-07	1.010E-06	2.857E-06	3.544E-06
1.33E 00--1.66E 00	9.676E-06	8.305E-06	2.887E-06	-1.809E-06	-3.144E-06	-5.322E-07	2.605E-06	6.139E-06	4.700E-06
1.00E 00--1.33E 00	1.372E-05	1.165E-05	3.633E-05	-3.005E-06	-4.350E-06	-4.272E-08	4.228E-06	8.172E-06	3.686E-06
8.00E-01--1.00E 00	8.998E-06	7.533E-06	2.119E-06	-1.803E-06	-6.625E-06	1.319E-06	5.746E-06	6.655E-06	6.582E-06
6.00E-01--8.00E-01	-6.897E-06	-5.668E-06	-1.641E-06	2.583E-06	6.553E-06	5.441E-06	2.358E-06	4.921E-06	2.016E-05
4.00E-01--6.00E-01	-1.692E-05	-1.531E-05	-1.789E-06	7.448E-06	1.379E-05	8.523E-06	8.208E-06	2.694E-05	7.889E-05
3.00E-01--4.00E-01	9.882E-05	9.800E-05	9.599E-05	9.769E-04	1.119E-04	1.476E-04	2.113E-04	3.026E-04	4.116E-04
2.00E-01--3.00E-01	1.179E-04	1.246E-04	1.549E-04	2.165E-04	3.080E-04	4.214E-04	5.343E-04	6.237E-04	6.755E-04
1.00E-01--2.00E-01	1.146E-03	1.146E-03	1.145E-03	1.138E-03	1.118E-03	1.088E-03	1.055E-03	1.032E-03	1.031E-03
5.00E-02--1.00E-01	2.760E-03	2.767E-03	2.794E-03	2.843E-03	2.912E-03	3.003E-03	3.114E-03	3.249E-03	3.408E-03
2.00E-02--5.00E-02	8.578E-03	8.592E-03	8.645E-03	8.769E-03	8.934E-03	9.153E-03	9.424E-03	9.749E-03	1.013E-02
	2.635E-03	2.636E-03	2.645E-03	2.660E-03	2.682E-03	2.710E-03	2.744E-03	2.785E-03	2.830E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	
6.50E 00--8.00E 00	5.675E-07	8.899E-07	1.305E-06	2.671E-06	6.772E-06	2.030E-05	6.046E-05	1.459E-04	7.320E-05
5.00E 00--6.50E 00	1.301E-06	1.970E-06	2.859E-06	5.055E-06	1.298E-05	3.950E-05	1.149E-04	2.675E-04	1.390E-04
4.00E 00--5.00E 00	1.300E-05	1.986E-05	2.895E-05	5.049E-05	1.214E-04	3.444E-04	9.583E-04	2.175E-03	1.198E-03
3.00E 00--4.00E 00	6.400E-06	1.043E-05	1.311E-05	1.675E-05	5.723E-05	1.966E-04	5.309E-04	1.070E-03	6.057E-04
2.50E 00--3.00E 00	8.985E-06	1.326E-05	1.595E-05	3.216E-05	9.627E-05	2.767E-04	6.609E-04	1.230E-03	7.978E-04
2.00E 00--2.50E 00	4.690E-06	6.530E-06	1.159E-05	3.547E-05	1.104E-04	2.826E-04	5.865E-04	9.560E-04	7.111E-04
1.66E 00--2.00E 00	3.119E-06	4.908E-06	1.837E-05	6.108E-05	1.582E-04	3.369E-04	6.036E-04	8.887E-04	8.082E-04
1.33E 00--1.66E 00	1.464E-06	6.370E-06	3.466E-05	1.006E-04	2.202E-04	3.963E-04	6.121E-04	8.088E-04	9.399E-04
1.00E 00--1.33E 00	3.255E-06	1.573E-05	6.384E-05	1.576E-04	2.948E-04	4.559E-04	6.107E-04	7.228E-04	1.120E-03
8.00E-01--1.00E 00	1.657E-05	5.384E-05	1.324E-04	2.517E-04	3.906E-04	5.146E-04	5.939E-04	6.251E-04	1.434E-03
6.00E-01--8.00E-01	6.126E-05	1.349E-04	2.386E-04	3.575E-04	4.669E-04	5.421E-04	5.726E-04	5.723E-04	1.871E-03
4.00E-01--6.00E-01	1.648E-04	2.707E-04	3.743E-04	4.545E-04	5.114E-04	5.474E-04	5.762E-04	5.992E-04	2.543E-03
3.00E-01--4.00E-01	5.213E-04	6.139E-04	6.802E-04	7.256E-04	7.688E-04	8.290E-04	9.075E-04	9.762E-04	5.750E-03
2.00E-01--3.00E-01	6.958E-04	7.082E-04	7.394E-04	8.013E-04	8.821E-04	9.548E-04	9.978E-04	1.012E-03	7.940E-03
1.00E-01--2.00E-01	1.057E-03	1.106E-03	1.167E-03	1.234E-03	1.302E-03	1.371E-03	1.434E-03	1.479E-03	1.433E-02
5.00E-02--1.00E-01	3.589E-03	3.793E-03	4.013E-03	4.242E-03	4.466E-03	4.671E-03	4.833E-03	4.932E-03	4.536E-02
2.00E-02--5.00E-02	1.055E-02	1.101E-02	1.150E-02	1.199E-02	1.245E-02	1.286E-02	1.318E-02	1.336E-02	1.325E-01
	2.880E-03	2.931E-03	2.984E-03	3.035E-03	3.081E-03	3.119E-03	3.148E-03	3.165E-03	3.607E-02

## 4 PI R\*2 FLUENCE AT 1800.0 METERS

## 0.111 TO 1.108 MEV NEUTRON SOURCE

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	-8.818E-08	-6.756E-08	-2.852E-09	4.572E-08	9.183E-08	6.147E-08	9.243E-09	6.529E-09	4.298E-08
6.50E 00---8.00E 00	-3.709E-07	-2.947E-07	-5.538E-08	1.225E-07	2.864E-07	1.409E-07	-2.321E-08	-6.040E-08	5.887E-08
5.00E 00---6.50E 00	-2.065E-06	-1.578E-06	-3.839E-08	1.145E-06	2.189E-06	1.323E-06	1.628E-07	1.108E-07	1.037E-06
4.00E 00---5.00E 00	-4.688E-06	-3.817E-06	-1.267E-06	9.854E-07	2.702E-06	7.913E-07	-1.162E-06	-1.566E-06	3.581E-07
3.00E 00---4.00E 00	-3.252E-06	-4.054E-06	-7.278E-07	1.150E-06	2.597E-06	7.478E-07	-9.024E-07	-9.757E-07	4.499E-07
2.50E 00---3.00E 00	-2.092E-06	-1.406E-06	-3.510E-07	5.663E-07	1.126E-06	1.537E-08	-8.816E-07	-3.549E-07	5.96E-07
2.00E 00---2.50E 00	1.600E-06	1.406E-06	6.003E-07	-2.263E-07	-6.562E-07	-3.733E-07	2.665E-07	1.365E-06	1.017E-06
1.66E 00---2.00E 00	5.638E-06	4.790E-06	1.509E-06	-1.394E-06	-2.236E-06	-6.179E-07	1.301E-06	3.243E-06	2.714E-07
1.33E 00---1.66E 00	8.047E-06	6.740E-06	1.892E-06	-2.219E-06	-3.505E-06	-3.838E-07	2.246E-06	4.240E-06	2.714E-07
1.00E 00---1.33E 00	5.056E-06	4.149E-06	8.693E-07	-1.581E-06	-1.495E-06	-2.733E-07	2.695E-06	2.536E-06	3.647E-07
8.00E 01---1.00E 00	-4.724E-06	-3.983E-06	-1.436E-06	1.027E-06	3.225E-06	2.073E-06	-5.547E-07	-2.848E-07	6.406E-06
6.00E 01---8.00E 01	-1.103E-05	-8.878E-06	-1.971E-06	5.570E-06	6.709E-06	1.890E-06	7.959E-07	9.361E-06	3.692E-05
4.00E 01---6.00E 01	4.456E-05	4.456E-05	4.258E-05	4.205E-05	4.803E-05	6.53E-05	9.826E-05	1.456E-04	2.017E-04
3.00E 01---4.00E 01	4.954E-05	5.287E-05	6.818E-05	9.969E-05	1.478E-04	2.073E-04	2.657E-04	3.096E-04	3.313E-04
2.00E 01---3.00E 01	5.680E-04	5.681E-04	5.674E-04	5.625E-04	5.504E-04	5.315E-04	5.107E-04	4.953E-04	4.920E-04
1.00E 01---2.00E 01	1.327E-03	1.330E-03	1.343E-03	1.367E-03	1.400E-03	1.444E-03	1.496E-03	1.560E-03	1.633E-03
5.00E 02---1.00E 01	4.126E-03	4.133E-03	4.163E-03	4.217E-03	4.295E-03	4.398E-03	4.525E-03	4.678E-03	4.844E-03
2.00E 02---5.00E 02	1.264E-03	1.265E-03	1.269E-03	1.276E-03	1.286E-03	1.299E-03	1.315E-03	1.334E-03	1.355E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0050	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	1.340E-07	2.299E-07	3.113E-07	5.487E-07	1.824E-06	7.600E-06	2.994E-05	9.112E-05	3.471E-05
6.50E 00---8.00E 00	3.451E-07	5.987E-07	6.498E-07	8.792E-07	3.290E-06	1.480E-05	5.625E-05	1.615E-04	6.394E-05
5.00E 00---6.50E 00	3.217E-06	5.186E-06	6.177E-06	9.360E-06	3.014E-05	1.200E-04	4.317E-04	1.206E-03	5.000E-04
4.00E 00---5.00E 00	2.260E-06	4.252E-06	3.995E-06	7.744E-06	1.505E-05	8.412E-05	2.762E-04	6.332E-04	2.888E-04
3.00E 00---4.00E 00	3.256E-06	4.421E-06	3.003E-06	5.429E-06	3.163E-05	1.212E-04	3.330E-04	6.828E-04	3.623E-04
2.50E 00---3.00E 00	1.863E-06	1.791E-06	1.964E-06	1.099E-05	4.771E-05	1.410E-04	3.173E-04	5.480E-04	3.563E-04
2.00E 00---2.50E 00	7.090E-08	2.885E-08	4.735E-06	2.517E-05	7.578E-05	1.731E-04	3.243E-04	4.940E-04	4.056E-04
1.66E 00---2.00E 00	-1.730E-06	1.876E-07	1.185E-05	4.760E-05	1.115E-04	2.087E-04	3.237E-04	4.324E-04	4.714E-04
1.33E 00---1.66E 00	-1.928E-06	3.793E-06	2.828E-05	7.937E-05	1.535E-04	2.380E-04	3.154E-04	3.688E-04	5.609E-04
1.00E 00---1.33E 00	4.412E-06	2.307E-05	6.554E-05	1.304E-04	2.040E-04	2.647E-04	2.960E-04	3.008E-04	7.143E-04
8.00E 01---1.00E 00	2.794E-05	6.720E-05	1.225E-04	1.846E-04	2.387E-04	2.709E-04	2.768E-04	2.675E-04	2.73E-04
6.00E 01---8.00E 01	8.329E-05	1.395E-04	1.919E-04	2.299E-04	2.516E-04	2.638E-04	2.746E-04	2.848E-04	1.252E-03
4.00E 01---6.00E 01	2.565E-04	2.999E-04	3.270E-04	3.417E-04	3.557E-04	3.806E-04	4.174E-04	4.512E-04	2.725E-03
3.00E 01---4.00E 01	3.351E-04	3.352E-04	3.467E-04	3.757E-04	4.141E-04	4.458E-04	4.599E-04	4.601E-04	3.792E-03
2.00E 01---3.00E 01	5.026E-04	5.243E-04	5.513E-04	5.795E-04	6.077E-04	6.367E-04	6.646E-04	6.847E-04	6.846E-03
1.00E 01---2.00E 01	1.718E-03	1.811E-03	1.912E-03	2.016E-03	2.117E-03	2.208E-03	2.281E-03	2.324E-03	2.166E-02
5.00E 02---1.00E 01	5.052E-03	5.266E-03	5.491E-03	5.716E-03	5.928E-03	6.114E-03	6.257E-03	6.342E-03	6.340E-02
2.00E 02---5.00E 02	1.378E-03	1.402E-03	1.426E-03	1.450E-03	1.471E-03	1.489E-03	1.502E-03	1.510E-03	1.726E-02

## C.111 TO 1.1C8 MEV NEUTRON SOURCE

4.01 R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E-01	8.649E-11	1.028E-10	1.221E-10	1.271E-10	1.222E-10	1.117E-10
-9.89401E-01	8.674E-11	1.031E-10	1.225E-10	1.275E-10	1.226E-10	1.121E-10
-9.44575E-01	8.778E-11	1.043E-10	1.240E-10	1.291E-10	1.242E-10	1.135E-10
-8.65631E-01	8.987E-11	1.068E-10	1.271E-10	1.323E-10	1.273E-10	1.164E-10
-7.55044E-01	9.311E-11	1.107E-10	1.317E-10	1.371E-10	1.319E-10	1.206E-10
-6.17876E-01	9.774E-11	1.161E-10	1.381E-10	1.439E-10	1.384E-10	1.265E-10
-4.58017E-01	1.041E-10	1.235E-10	1.468E-10	1.529E-10	1.470E-10	1.344E-10
-2.81605E-01	1.127E-10	1.335E-10	1.583E-10	1.647E-10	1.583E-10	1.446E-10
-9.50125E-02	1.241E-10	1.466E-10	1.734E-10	1.801E-10	1.729E-10	1.577E-10
9.50125E-02	1.780E-10	1.717E-10	1.826E-10	2.070E-10	1.996E-10	1.717E-10
2.81605E-01	1.622E-10	1.996E-10	2.45E-10	2.205E-10	2.095E-10	1.978E-10
4.58017E-01	1.959E-10	2.096E-10	2.51E-10	2.648E-10	2.522E-10	2.222E-10
6.17876E-01	2.420E-10	2.658E-10	3.175E-10	3.023E-10	2.835E-10	2.612E-10
7.55044E-01	2.684E-10	3.473E-10	3.683E-10	3.761E-10	3.507E-10	3.084E-10
8.65631E-01	4.567E-10	4.486E-10	4.863E-10	4.710E-10	4.300E-10	3.811E-10
9.44575E-01	1.273E-09	9.341E-10	7.696E-10	6.819E-10	5.930E-10	5.017E-10
9.89401E-01	3.883E-09	3.762E-09	2.825E-09	2.063E-09	1.501E-09	1.104E-09
TOTAL	3.133E-09	3.231E-09	3.320E-09	3.220E-09	2.953E-09	2.610E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-01	5.874E-11	3.861E-11	9.001E-12	1.772E-12	3.177E-13	5.365E-14
-9.89401E-01	5.893E-11	3.873E-11	9.030E-12	1.777E-12	3.187E-13	5.382E-14
-9.44575E-01	5.972E-11	3.925E-11	9.153E-12	1.802E-12	3.230E-13	5.456E-14
-8.65631E-01	6.123E-11	4.025E-11	9.384E-12	1.847E-12	3.311E-13	5.592E-14
-7.55044E-01	6.347E-11	4.172E-11	9.725E-12	1.914E-12	3.435E-13	5.794E-14
-6.17876E-01	6.657E-11	4.375E-11	1.019E-11	2.006E-12	3.595E-13	6.069E-14
-4.58017E-01	7.064E-11	4.641E-11	1.081E-11	2.125E-12	3.807E-13	6.426E-14
-2.81605E-01	7.588E-11	4.982E-11	1.159E-11	2.277E-12	4.077E-13	6.879E-14
-9.50125E-02	8.252E-11	5.413E-11	1.256E-11	2.465E-12	4.411E-13	7.438E-14
9.50125E-02	9.082E-11	5.952E-11	1.377E-11	2.698E-12	4.821E-13	8.123E-14
2.81605E-01	1.014E-10	6.623E-11	1.525E-11	2.981E-12	5.318E-13	8.949E-14
4.58017E-01	1.145E-10	7.458E-11	1.707E-11	3.323E-12	5.913E-13	9.933E-14
6.17876E-01	1.311E-10	8.499E-11	1.927E-11	3.730E-12	6.615E-13	1.101E-13
7.55044E-01	1.523E-10	9.804E-11	2.192E-11	4.209E-12	7.427E-13	1.240E-13
8.65631E-01	1.804E-10	1.147E-10	2.509E-11	4.761E-12	8.336E-13	1.365E-13
9.44575E-01	2.209E-10	1.375E-10	2.892E-11	5.375E-12	9.296E-13	1.532E-13
9.89401E-01	3.390E-10	1.914E-10	3.465E-11	6.069E-12	1.021E-12	1.659E-13
TOTAL	1.283E-09	8.285E-10	1.872E-10	3.625E-11	6.435E-12	1.079E-12

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

C.111 TO 1.108 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-01	1.709E-10	2.139E-10	2.773E-10	3.103E-10	3.175E-10
-9.89401E-01	1.714E-10	2.144E-10	2.780E-10	3.111E-10	3.183E-10
-9.44575E-01	1.732E-10	2.166E-10	2.809E-10	3.143E-10	3.216E-10
-8.65631E-01	1.768E-10	2.211E-10	2.866E-10	3.206E-10	3.280E-10
-7.55044E-01	1.824E-10	2.279E-10	2.951E-10	3.305E-10	3.374E-10
-6.17876E-01	1.903E-10	2.375E-10	3.070E-10	3.429E-10	3.504E-10
-4.58017E-01	2.011E-10	2.504E-10	3.229E-10	3.601E-10	3.674E-10
-2.81605E-01	2.156E-10	2.676E-10	3.437E-10	3.823E-10	3.893E-10
-9.50125E-02	2.350E-10	2.902E-10	3.706E-10	4.171E-10	4.242E-10
9.50125E-02	3.202E-10	3.363E-10	3.941E-10	4.541E-10	4.605E-10
2.81605E-01	2.982E-10	3.775E-10	4.717E-10	5.893E-10	5.893E-10
4.58017E-01	3.533E-10	3.978E-10	4.824E-10	5.583E-10	5.583E-10
6.17876E-01	4.286E-10	4.901E-10	6.154E-10	6.279E-10	6.205E-10
7.55044E-01	4.755E-10	6.231E-10	7.030E-10	7.492E-10	7.300E-10
8.65631E-01	7.845E-10	7.911E-10	8.975E-10	9.105E-10	8.670E-10
9.44575E-01	2.122E-09	1.592E-09	1.364E-09	1.257E-09	1.136E-09
9.89401E-01	6.413E-09	6.243E-09	4.760E-09	3.544E-09	2.643E-09
TOTAL	5.532E-09	5.940E-09	6.561E-09	7.695E-09	6.575E-09
					6.112E-09
					4.822E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-01	1.875E-10	1.296E-10	3.329E-11	6.911E-12	1.279E-12
-9.89401E-01	1.879E-10	1.299E-10	3.336E-11	6.927E-12	1.282E-12
-9.44575E-01	1.898E-10	1.312E-10	3.370E-11	6.996E-12	1.295E-12
-8.65631E-01	1.935E-10	1.337E-10	3.432E-11	7.124E-12	1.319E-12
-7.55044E-01	1.987E-10	1.373E-10	3.523E-11	7.310E-12	1.353E-12
-6.17876E-01	2.060E-10	1.423E-10	3.646E-11	7.561E-12	1.399E-12
-4.58017E-01	2.152E-10	1.485E-10	3.802E-11	7.879E-12	1.457E-12
-2.81605E-01	2.269E-10	1.564E-10	3.996E-11	8.273E-12	1.529E-12
-9.50125E-02	2.413E-10	1.661E-10	4.231E-11	8.746E-12	1.615E-12
9.50125E-02	2.588E-10	1.778E-10	4.512E-11	9.308E-12	1.716E-12
2.81605E-01	2.801E-10	1.919E-10	4.844E-11	9.965E-12	1.834E-12
4.58017E-01	3.060E-10	2.088E-10	5.233E-11	1.072E-11	1.969E-12
6.17876E-01	3.375E-10	2.290E-10	5.684E-11	1.159E-11	2.121E-12
7.55044E-01	3.764E-10	2.534E-10	6.202E-11	1.256E-11	2.289E-12
8.65631E-01	4.260E-10	2.834E-10	6.797E-11	1.362E-11	2.467E-12
9.44575E-01	4.954E-10	3.230E-10	7.483E-11	1.475E-11	2.648E-12
9.89401E-01	6.933E-10	4.138E-10	8.468E-11	1.597E-11	2.812E-12
TOTAL	3.481E-09	2.364E-09	5.891E-10	1.206E-10	2.213E-11
					3.795E-12

4 PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

0.111 TO 1.108 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-01	1.016E-08	1.223E-08	1.482E-08	1.565E-08	1.523E-08
-9.89401E-01	1.019E-08	1.226E-08	1.485E-08	1.570E-08	1.527E-08
-9.44575E-01	1.031E-08	1.241E-08	1.504E-08	1.589E-08	1.546E-08
-8.65631E-01	1.035E-08	1.270E-08	1.539E-08	1.626E-08	1.583E-08
-7.55044E-01	1.092E-08	1.314E-08	1.593E-08	1.683E-08	1.638E-08
-6.17876E-01	1.144E-08	1.376E-08	1.667E-08	1.761E-08	1.714E-08
-4.58017E-01	1.216E-08	1.460E-08	1.767E-08	1.866E-08	1.815E-08
-2.81605E-01	1.312E-08	1.572E-08	1.899E-08	2.003E-08	1.946E-08
-9.50125E-02	1.440E-08	1.720E-08	2.070E-08	2.179E-08	2.115E-08
9.50125E-02	2.050E-08	1.991E-08	2.177E-08	2.481E-08	2.416E-08
2.81605E-01	1.868E-08	2.312E-08	2.760E-08	2.639E-08	2.536E-08
4.58017E-01	2.241E-08	2.414E-08	2.764E-08	3.134E-08	3.016E-08
6.17876E-01	2.744E-08	3.050E-08	3.686E-08	3.552E-08	3.375E-08
7.55044E-01	3.015E-08	3.941E-08	4.224E-08	4.369E-08	4.111E-08
8.65631E-01	5.048E-08	5.030E-08	5.530E-08	5.402E-08	4.975E-08
9.44575E-01	1.379E-07	1.021E-07	8.568E-08	7.678E-08	6.737E-08
9.89401E-01	4.153E-07	4.028E-07	3.034E-07	2.227E-07	1.632E-07
TOTAL	3.505E-07	3.659E-07	3.840E-07	3.782E-07	3.516E-07

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-01	7.605E-09	5.046E-09	1.199E-09	2.386E-10	4.307E-11
-9.89401E-01	7.628E-09	5.062E-09	1.202E-09	2.393E-10	4.320E-11
-9.44575E-01	7.725E-09	5.126E-09	1.218E-09	2.424E-10	4.376E-11
-8.65631E-01	7.910E-09	5.248E-09	1.247E-09	2.481E-10	4.478E-11
-7.55044E-01	8.182E-09	5.429E-09	1.289E-09	2.565E-10	4.630E-11
-6.17876E-01	8.557E-09	5.678E-09	1.347E-09	2.680E-10	4.836E-11
-4.58017E-01	9.047E-09	5.999E-09	1.423E-09	2.828E-10	5.102E-11
-2.81605E-01	9.674E-09	6.411E-09	1.518E-09	3.016E-10	5.437E-11
-9.50125E-02	1.046E-08	6.925E-09	1.637E-09	3.247E-10	5.848E-11
9.50125E-02	1.144E-08	7.563E-09	1.782E-09	3.528E-10	6.348E-11
2.81605E-01	1.267E-08	8.351E-09	1.958E-09	3.868E-10	6.947E-11
4.58017E-01	1.418E-08	9.318E-09	2.171E-09	4.272E-10	7.655E-11
6.17876E-01	1.607E-08	1.051E-08	2.426E-09	4.748E-10	8.479E-11
7.55044E-01	1.845E-08	1.198E-08	2.727E-09	5.298E-10	9.415E-11
8.65631E-01	2.155E-08	1.383E-08	3.083E-09	5.920E-10	1.045E-10
9.44575E-01	2.594E-08	1.631E-08	3.502E-09	6.598E-10	1.152E-10
9.89401E-01	3.839E-08	2.200E-08	4.113E-09	7.346E-10	1.251E-10
TOTAL	1.590E-07	1.037E-07	2.391E-08	4.686E-09	8.301E-10



4 PI R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

0.111 TO 1.108 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.0C000E-00	2.161E-11	2.805E-11	3.838E-11	4.466E-11	4.711E-11
-9.89401E-01	2.166E-11	2.811E-11	3.847E-11	4.476E-11	4.722E-11
-8.44575E-01	2.187E-11	2.837E-11	3.882E-11	4.517E-11	4.765E-11
-8.65631E-01	2.228E-11	2.889E-11	3.951E-11	4.596E-11	4.847E-11
-7.55044E-01	2.291E-11	2.967E-11	4.054E-11	4.713E-11	4.968E-11
-6.17876E-01	2.379E-11	3.077E-11	4.196E-11	4.873E-11	5.133E-11
-4.58017E-01	2.498E-11	3.223E-11	4.383E-11	5.082E-11	5.347E-11
-2.81605E-01	2.656E-11	3.414E-11	4.623E-11	5.347E-11	5.617E-11
-9.50125E-02	2.864E-11	3.662E-11	4.929E-11	5.681E-11	5.953E-11
9.50125E-02	3.835E-11	4.691E-11	5.166E-11	6.190E-11	6.470E-11
2.81805E-01	3.560E-11	4.614E-11	6.080E-11	6.540E-11	6.789E-11
4.58017E-01	4.135E-11	4.767E-11	6.116E-11	7.354E-11	7.59CE-11
6.17876E-01	4.893E-11	5.801E-11	7.613E-11	8.068E-11	8.241E-11
7.55044E-01	5.274E-11	7.149E-11	8.403E-11	9.361E-11	9.425E-11
8.65631E-01	8.255E-11	8.749E-11	1.044E-10	1.095E-10	1.079E-10
9.44575E-01	2.083E-10	1.616E-10	1.485E-10	1.432E-10	1.341E-10
9.89401E-01	6.022E-10	5.891E-10	4.557E-10	3.486E-10	2.688E-10
TOTAL	6.083E-10	6.812E-10	8.067E-10	8.754E-10	8.846E-10
					7.014E-10

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.0C000E-00	3.025E-11	2.129E-11	5.636E-12	1.188E-12	2.219E-13
-9.89401E-01	3.032E-11	2.133E-11	5.648E-12	1.191E-12	2.224E-13
-9.44575E-01	3.059E-11	2.153E-11	5.699E-12	1.202E-12	2.244E-13
-8.65631E-01	3.111E-11	2.189E-11	5.794E-12	1.221E-12	2.281E-13
-7.55044E-01	3.186E-11	2.241E-11	5.931E-12	1.250E-12	2.334E-13
-6.17876E-01	3.287E-11	2.311E-11	6.114E-12	1.288E-12	2.405E-13
-4.58017E-01	3.415E-11	2.400E-11	6.344E-12	1.336E-12	2.493E-13
-2.81605E-01	3.573E-11	2.510E-11	6.626E-12	1.394E-12	2.601E-13
-9.50125E-02	3.765E-11	2.642E-11	6.960E-12	1.463E-12	2.728E-13
9.50125E-02	3.994E-11	2.798E-11	7.352E-12	1.544E-12	2.875E-13
2.81605E-01	4.263E-11	2.980E-11	7.802E-12	1.635E-12	3.041E-13
4.58017E-01	4.580E-11	3.192E-11	8.311E-12	1.737E-12	3.226E-13
6.17876E-01	4.951E-11	3.436E-11	8.880E-12	1.849E-12	3.426E-13
7.55044E-01	5.388E-11	3.715E-11	9.503E-12	1.968E-12	3.637E-13
8.65631E-01	5.915E-11	4.041E-11	1.018E-11	2.092E-12	3.85CE-13
9.44575E-01	6.604E-11	4.438E-11	1.090E-11	2.216E-12	4.052E-13
9.89401E-01	8.374E-11	5.258E-11	1.182E-11	2.336E-12	4.221E-13
TOTAL	5.230E-10	3.635E-10	9.436E-11	.971E-11	3.661E-12
					6.324E-13

4 P1 R\*\*2 CONCRETE KERMA (NEUTRONS)  
C.M\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON

C.111 TO 1.1C8 MFV NEUTRON SOURCE

COSINE	RANGE (METERS)					RANGE (METERS)					RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0	75.0	100.0	150.0	200.0	400.0	75.0	100.0	150.0	200.0	400.0
-1.00000E-01	1.167E-09	1.392E-09	1.665E-09	1.741E-09	1.541E-09	1.167E-09	1.392E-09	1.665E-09	1.741E-09	1.541E-09	1.167E-09	1.392E-09	1.665E-09	1.741E-09	1.541E-09
-9.89401E-01	1.171E-09	1.396E-09	1.670E-09	1.746E-09	1.546E-09	1.171E-09	1.396E-09	1.670E-09	1.746E-09	1.546E-09	1.171E-09	1.396E-09	1.670E-09	1.746E-09	1.546E-09
-9.44575E-01	1.184E-09	1.413E-09	1.690E-09	1.768E-09	1.566E-09	1.184E-09	1.413E-09	1.690E-09	1.768E-09	1.566E-09	1.184E-09	1.413E-09	1.690E-09	1.768E-09	1.566E-09
-8.65631E-01	1.212E-09	1.447E-09	1.731E-09	1.811E-09	1.605E-09	1.212E-09	1.447E-09	1.731E-09	1.811E-09	1.605E-09	1.212E-09	1.447E-09	1.731E-09	1.811E-09	1.605E-09
-7.55044E-01	1.256E-09	1.498E-09	1.793E-09	1.876E-09	1.662E-09	1.256E-09	1.498E-09	1.793E-09	1.876E-09	1.662E-09	1.256E-09	1.498E-09	1.793E-09	1.876E-09	1.662E-09
-6.17876E-01	1.317E-09	1.571E-09	1.880E-09	1.967E-09	1.743E-09	1.317E-09	1.571E-09	1.880E-09	1.967E-09	1.743E-09	1.317E-09	1.571E-09	1.880E-09	1.967E-09	1.743E-09
-4.58017E-01	1.402E-09	1.670E-09	1.997E-09	2.088E-09	1.849E-09	1.402E-09	1.670E-09	1.997E-09	2.088E-09	1.849E-09	1.402E-09	1.670E-09	1.997E-09	2.088E-09	1.849E-09
-2.81605E-01	1.516E-09	1.803E-09	2.151E-09	2.247E-09	1.987E-09	1.516E-09	1.803E-09	2.151E-09	2.247E-09	1.987E-09	1.516E-09	1.803E-09	2.151E-09	2.247E-09	1.987E-09
-9.50125E-02	1.669E-09	1.978E-09	2.352E-09	2.454E-09	2.163E-09	1.669E-09	1.978E-09	2.352E-09	2.454E-09	2.163E-09	1.669E-09	1.978E-09	2.352E-09	2.454E-09	2.163E-09
9.50125E-02	2.383E-09	2.916E-09	3.438E-09	3.540E-09	2.353E-09	2.383E-09	2.916E-09	3.438E-09	3.540E-09	2.353E-09	2.383E-09	2.916E-09	3.438E-09	3.540E-09	2.353E-09
2.81605E-01	2.175E-09	2.681E-09	3.164E-09	3.266E-09	2.859E-09	2.175E-09	2.681E-09	3.164E-09	3.266E-09	2.859E-09	2.175E-09	2.681E-09	3.164E-09	3.266E-09	2.859E-09
4.58017E-01	2.623E-09	3.187E-09	3.766E-09	3.868E-09	3.424E-09	2.623E-09	3.187E-09	3.766E-09	3.868E-09	3.424E-09	2.623E-09	3.187E-09	3.766E-09	3.868E-09	3.424E-09
6.17876E-01	3.234E-09	3.965E-09	4.707E-09	4.809E-09	4.179E-09	3.234E-09	3.965E-09	4.707E-09	4.809E-09	4.179E-09	3.234E-09	3.965E-09	4.707E-09	4.809E-09	4.179E-09
7.55044E-01	3.585E-09	4.456E-09	5.347E-09	5.449E-09	4.737E-09	3.585E-09	4.456E-09	5.347E-09	5.449E-09	4.737E-09	3.585E-09	4.456E-09	5.347E-09	5.449E-09	4.737E-09
8.65631E-01	6.081E-09	5.989E-09	6.514E-09	6.330E-09	5.794E-09	6.081E-09	5.989E-09	6.514E-09	6.330E-09	5.794E-09	6.081E-09	5.989E-09	6.514E-09	6.330E-09	5.794E-09
9.44575E-01	1.689E-08	1.242E-08	1.027E-08	9.124E-09	7.953E-09	1.689E-08	1.242E-08	1.027E-08	9.124E-09	7.953E-09	1.689E-08	1.242E-08	1.027E-08	9.124E-09	7.953E-09
9.89401E-01	5.145E-08	4.987E-08	3.750E-08	2.741E-08	1.998E-08	5.145E-08	4.987E-08	3.750E-08	2.741E-08	1.998E-08	5.145E-08	4.987E-08	3.750E-08	2.741E-08	1.998E-08
TOTAL	4.182E-08	4.327E-08	4.471E-08	4.354E-08	4.012E-08	4.182E-08	4.327E-08	4.471E-08	4.354E-08	4.012E-08	4.182E-08	4.327E-08	4.471E-08	4.354E-08	4.012E-08

RANGE (METERS)

RANGE (METERS)

RANGE (METERS)

RANGE (METERS)

RANGE (METERS)

RANGE (METERS)

<sup>4</sup>PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

C.111 TO 1.1C8 MEV NEUTRON SOURCE							
4 PI R**2 AIR KERMA (NEUTRONS) (CM**2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)							
COSINE	75.0	100.C	150.0	RANGE (METERS) 200.C	250.0	300.C	400.0
-1.00000E 00	8.756E-10	1.C98E-C9	1.444E-C9	1.653E-09	1.737E-09	1.722E-C9	1.496E-09
-9.89401E-01	8.779E-10	1.100E-C9	1.447E-C9	1.657E-C9	1.741E-09	1.726E-C9	1.499E-09
-9.44575E-01	8.872E-10	1.112E-C9	1.462E-C9	1.673E-C9	1.758E-09	1.742E-C9	1.513E-09
-8.65631E-01	9.059E-10	1.134E-C9	1.491E-C9	1.703E-C9	1.791E-09	1.774E-C9	1.539E-09
-7.55044E-01	9.346E-10	1.169E-C9	1.534E-C9	1.753E-C9	1.839E-09	1.820E-C9	1.578E-09
-6.17876E-01	9.756E-10	1.218E-C9	1.594E-C9	1.818E-C9	1.905E-09	1.883E-C9	1.630E-09
-4.58017E-01	1.031E-09	1.285E-09	1.675E-09	1.905E-09	1.992E-09	1.966E-C9	1.698E-09
-2.81605E-01	1.106E-C9	1.373E-09	1.780E-C9	2.018E-09	2.103E-09	2.071E-C9	1.783E-C9
-9.50125E-02	1.206E-C9	1.488E-C9	1.917E-C9	2.162E-09	2.244E-09	2.203E-C9	1.888E-09
9.50125E-02	1.679E-C9	1.700E-C9	2.100E-C9	2.405E-09	2.492E-09	2.444E-C9	2.022E-09
2.81605E-01	1.539E-C9	1.951E-C9	2.461E-09	2.532E-C9	2.592E-09	2.590E-C9	2.173E-C9
6.17876E-01	1.829E-C9	2.032E-09	2.467E-C9	2.928E-09	2.980E-09	2.821E-09	2.373E-09
7.55044E-01	2.222E-09	2.525E-C9	3.185E-C9	3.256E-09	3.268E-09	3.176E-09	2.611E-09
8.65631E-01	2.435E-C9	3.219E-C9	3.610E-C9	3.899E-C9	3.851E-09	3.596E-C9	2.920E-09
9.44575E-01	4.021E-C9	4.071E-C9	4.626E-C9	4.708E-C9	4.532E-09	4.227E-C9	3.323E-09
9.89401E-01	1.085E-C8	8.118E-C9	7.002E-C9	6.489E-09	5.913E-09	5.251E-C9	3.934E-09
TOTAL	3.257E-08	3.166E-C8	2.405E-C8	1.792E-C8	1.342E-08	1.023E-C8	6.118E-09
	2.840E-C8	3.C40E-C8	3.377E-C8	3.536E-C8	3.499E-08	3.321E-C8	2.736E-08

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	1.158E-C9	8.283E-10	2.265E-10	4.855E-11	9.15CE-12	1.595E-12
-9.89401E-01	1.161E-C9	8.301E-10	2.270E-10	4.865E-11	9.169E-12	1.599E-12
-9.44575E-01	1.171E-09	8.376E-10	2.290E-10	4.908E-11	9.249E-12	1.612E-12
-8.65631E-01	1.191E-09	8.515E-10	2.327E-10	4.986E-11	9.395E-12	1.638E-12
-7.55044E-01	1.220E-C9	8.719E-10	2.381E-10	5.100E-11	9.607E-12	1.675E-12
-6.17876E-01	1.259E-C9	8.994E-10	2.454E-10	5.252E-11	9.890E-12	1.723E-12
-4.58017E-01	1.310E-C9	9.343E-10	2.545E-10	5.442E-11	1.024E-11	1.784E-12
-2.81605E-01	1.373E-09	9.778E-10	2.657E-10	5.676E-11	1.068E-11	1.859E-12
-9.50125E-02	1.450E-09	1.031E-C9	2.792E-10	5.955E-11	1.119E-11	1.947E-12
9.50125E-02	1.543E-C9	1.094E-C9	2.952E-10	6.282E-11	1.179E-11	2.050E-12
2.81605E-01	1.656E-09	1.170E-C9	3.138E-10	6.659E-11	1.248E-11	2.167E-12
6.17876E-01	1.792E-09	1.261E-C9	3.353E-10	7.089E-11	1.325E-11	2.298E-12
7.55044E-01	1.957E-C9	1.368E-C9	3.600E-10	7.571E-11	1.411E-11	2.442E-12
8.65631E-01	2.158E-09	1.495E-C9	3.879E-10	8.101E-11	1.504E-11	2.596E-12
9.44575E-01	2.413E-09	1.651E-C9	4.193E-10	8.672E-11	1.601E-11	2.754E-12
9.89401E-01	2.766E-C9	1.852E-C9	4.549E-10	9.265E-11	1.697E-11	2.904E-12
	3.747E-C9	2.303E-C9	5.043E-10	9.888E-11	1.782E-11	3.026E-12
TOTAL	2.053E-C8	1.439E-C8	3.817E-C9	8.065E-10	1.508E-10	2.616E-11

4 PI 2002 IONIZING SILICON KERMA (NEUTRONS)  
(CM<sup>2</sup>/GRAM/STERADIAN/SOURCE NEUTRON) 0.111 TO 1.1C8 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0 400.0
-1.00000E-00	8.660E-11	1.012E-10	1.19E-10	1.188E-10	1.120E-10	1.005E-10 7.387E-11
-9.89401E-01	8.687E-11	1.015E-10	1.173E-10	1.192E-10	1.123E-10	1.009E-10 7.412E-11
-9.44575E-01	8.796E-11	1.028E-10	1.188E-10	1.209E-10	1.139E-10	1.023E-10 7.520E-11
-8.65631E-01	9.017E-11	1.054E-10	1.219E-10	1.241E-10	1.170E-10	1.051E-10 7.728E-11
-7.55044E-01	9.357E-11	1.094E-10	1.266E-10	1.289E-10	1.216E-10	1.092E-10 8.037E-11
-6.17876E-01	9.842E-11	1.150E-10	1.332E-10	1.357E-10	1.280E-10	1.150E-10 8.466E-11
-4.58017E-01	1.051E-10	1.227E-10	1.423E-10	1.447E-10	1.366E-10	1.227E-10 9.035E-11
-2.81605E-01	1.140E-10	1.329E-10	1.537E-10	1.566E-10	1.478E-10	1.328E-10 9.774E-11
-9.50125E-02	1.259E-10	1.485E-10	1.690E-10	1.722E-10	1.624E-10	1.457E-10 1.072E-10
9.50125E-02	1.904E-10	1.648E-10	1.895E-10	2.056E-10	1.964E-10	1.571E-10 1.203E-10
2.81605E-01	1.670E-10	2.046E-10	2.388E-10	2.080E-10	1.934E-10	1.873E-10 1.339E-10
4.58017E-01	2.030E-10	2.628E-10	2.69E-10	2.616E-10	2.42E-10	2.086E-10 1.545E-10
6.17876E-01	2.510E-10	2.709E-10	3.198E-10	2.920E-10	2.702E-10	2.499E-10 1.787E-10
7.55044E-01	2.694E-10	3.560E-10	3.640E-10	3.725E-10	3.434E-10	2.949E-10 2.123E-10
8.65631E-01	4.568E-10	4.540E-10	4.880E-10	4.624E-10	4.167E-10	3.682E-10 2.565E-10
9.44575E-01	1.257E-09	9.167E-10	7.640E-10	6.729E-10	5.797E-10	4.841E-10 3.251E-10
9.89401E-01	3.750E-09	3.620E-09	2.687E-09	1.950E-09	1.412E-09	1.035E-09 5.841E-10
TOTAL	3.147E-09	3.205E-09	3.242E-09	3.109E-09	2.814E-09	2.445E-09 1.739E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E-00	5.013E-11	3.233E-11	7.245E-12	1.392E-12	2.458E-13	4.108E-14
-9.89401E-01	5.030E-11	3.244E-11	7.271E-12	1.397E-12	2.467E-13	4.123E-14
-9.44575E-01	5.104E-11	3.292E-11	7.382E-12	1.418E-12	2.505E-13	4.187E-14
-8.65631E-01	5.247E-11	3.385E-11	7.591E-12	1.459E-12	2.576E-13	4.306E-14
-7.55044E-01	5.458E-11	3.522E-11	7.900E-12	1.519E-12	2.682E-13	4.483E-14
-6.17876E-01	5.751E-11	3.711E-11	8.329E-12	1.601E-12	2.828E-13	4.727E-14
-4.58017E-01	6.138E-11	3.962E-11	8.890E-12	1.709E-12	3.018E-13	5.046E-14
-2.81605E-01	6.639E-11	4.284E-11	9.612E-12	1.848E-12	3.263E-13	5.454E-14
-9.50125E-02	7.277E-11	4.895E-11	1.052E-11	2.022E-12	3.569E-13	5.963E-14
9.50125E-02	8.073E-11	5.212E-11	1.168E-11	2.238E-12	3.948E-13	6.594E-14
2.81605E-01	9.111E-11	5.858E-11	1.307E-11	2.504E-12	4.412E-13	7.362E-14
4.58017E-01	1.039E-10	6.670E-11	1.480E-11	2.828E-12	4.973E-13	8.287E-14
6.17876E-01	1.202E-10	7.683E-11	1.692E-11	3.218E-12	5.641E-13	9.379E-14
7.55044E-01	1.410E-10	8.955E-11	1.947E-11	3.676E-12	6.415E-13	1.063E-13
8.65631E-01	1.683E-10	1.057E-10	2.252E-11	4.203E-12	7.281E-13	1.201E-13
9.44575E-01	2.069E-10	1.273E-10	2.613E-11	4.781E-12	8.186E-13	1.339E-13
9.89401E-01	3.135E-10	1.759E-10	3.132E-11	5.416E-12	9.031E-13	1.457E-13
TOTAL	1.154E-09	7.338E-10	1.605E-10	3.046E-11	5.337E-12	8.873E-13

4 PI R<sup>1/2</sup> NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 0.111 TO 1.108 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E 00	1.325E-10	1.543E-10	1.774E-10	1.798E-10	1.514E-10
-9.89401E-01	1.329E-10	1.547E-10	1.780E-10	1.803E-10	1.519E-10
-9.44575E-01	1.346E-10	1.567E-10	1.803E-10	1.828E-10	1.541E-10
-8.55631E-01	1.380E-10	1.607E-10	1.851E-10	1.877E-10	1.584E-10
-7.55044E-01	1.432E-10	1.669E-10	1.923E-10	1.951E-10	1.647E-10
-6.47876E-01	1.507E-10	1.756E-10	2.024E-10	2.055E-10	1.736E-10
-4.58017E-01	1.610E-10	1.875E-10	2.161E-10	2.195E-10	1.855E-10
-2.81605E-01	1.750E-10	2.035E-10	2.343E-10	2.380E-10	2.010E-10
-9.50125E-02	1.936E-10	2.247E-10	2.582E-10	2.622E-10	2.211E-10
9.50125E-02	2.877E-10	2.602E-10	2.643E-10	2.673E-10	2.402E-10
2.81605E-01	3.256E-10	3.135E-10	3.222E-10	3.219E-10	2.851E-10
4.58017E-01	3.129E-10	3.255E-10	3.543E-10	4.002E-10	3.207E-10
6.17876E-01	3.895E-10	4.197E-10	4.929E-10	4.545E-10	3.849E-10
7.55044E-01	4.276E-10	5.551E-10	5.723E-10	5.789E-10	4.588E-10
8.55631E-01	7.361E-10	7.192E-10	7.672E-10	7.296E-10	5.773E-10
9.44575E-01	2.072E-09	1.505E-09	1.229E-09	1.075E-09	7.714E-10
9.89401E-01	6.310E-09	6.098E-09	4.543E-09	3.293E-09	1.735E-09
TOTAL	5.011E-09	5.083E-09	5.091E-09	4.843E-09	3.782E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E 00	7.511E-11	4.835E-11	1.080E-11	2.070E-12	6.091E-14
-9.89401E-01	7.538E-11	4.853E-11	1.084E-11	2.077E-12	6.114E-14
-9.44575E-01	7.650E-11	4.926E-11	1.100E-11	2.109E-12	6.210E-14
-8.55631E-01	7.867E-11	5.066E-11	1.132E-11	2.170E-12	6.389E-14
-7.55044E-01	8.188E-11	5.275E-11	1.179E-11	2.261E-12	6.657E-14
-6.47876E-01	8.637E-11	5.564E-11	1.244E-11	2.386E-12	7.025E-14
-4.58017E-01	9.230E-11	5.947E-11	1.330E-11	2.550E-12	7.508E-14
-2.81605E-01	1.000E-10	6.443E-11	1.440E-11	2.762E-12	8.127E-14
-9.50125E-02	1.099E-10	7.076E-11	1.580E-11	3.028E-12	8.905E-14
9.50125E-02	1.22E-10	7.878E-11	1.756E-11	3.361E-12	9.872E-14
2.81605E-01	1.364E-10	8.887E-11	1.975E-11	3.773E-12	1.106E-13
4.58017E-01	1.585E-10	1.016E-10	2.246E-11	4.279E-12	1.249E-13
6.17876E-01	1.845E-10	1.177E-10	2.581E-11	4.893E-12	1.421E-13
7.55044E-01	2.179E-10	1.381E-10	2.989E-11	5.625E-12	1.619E-13
8.55631E-01	2.626E-10	1.646E-10	3.489E-11	6.479E-12	1.841E-13
9.44575E-01	3.274E-10	2.008E-10	4.088E-11	7.439E-12	2.069E-13
9.89401E-01	5.151E-10	2.664E-10	4.994E-11	8.532E-12	2.267E-13
TOTAL	1.769E-09	1.121E-09	2.437E-10	4.609E-11	1.337E-12

4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

0.111 TO 1.108 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	3.843E-13	6.239E-13	1.148E-12	1.633E-12	2.003E-12
-9.89401E-01	3.850E-13	6.253E-13	1.152E-12	1.639E-12	2.012E-12
-9.44175E-01	3.877E-13	6.307E-13	1.165E-12	1.663E-12	2.046E-12
-8.65631E-01	3.927E-13	6.413E-13	1.192E-12	1.710E-12	2.112E-12
-7.55044E-01	4.002E-13	6.569E-13	1.232E-12	1.780E-12	2.212E-12
-6.17876E-01	4.100E-13	6.775E-13	1.286E-12	1.875E-12	2.349E-12
-4.58017E-01	4.220E-13	7.029E-13	1.353E-12	1.997E-12	2.528E-12
-2.81605E-01	4.359E-13	7.331E-13	1.435E-12	2.150E-12	2.757E-12
-9.50125E-02	4.516E-13	7.677E-13	1.533E-12	2.337E-12	3.043E-12
2.81605E-01	4.688E-13	8.064E-13	1.646E-12	2.560E-12	3.396E-12
4.58017E-01	4.869E-13	8.474E-13	1.772E-12	2.821E-12	3.824E-12
6.17876E-01	5.051E-13	8.898E-13	1.909E-12	3.116E-12	4.327E-12
7.55044E-01	5.221E-13	9.329E-13	2.051E-12	3.436E-12	4.897E-12
8.65631E-01	5.379E-13	9.718E-13	2.189E-12	3.762E-12	5.508E-12
9.44175E-01	5.521E-13	1.004E-12	2.314E-12	4.069E-12	6.108E-12
9.89401E-01	5.614E-13	1.031E-12	2.409E-12	4.318E-12	6.619E-12
TOTAL	5.848E-12	1.009E-11	2.086E-11	3.314E-11	4.519E-11

COSINE	RANGE (METERS)				
	300.0	400.0	500.0	600.0	700.0
-1.00000E 00	2.230E-12	2.287E-12	2.345E-12	2.402E-12	2.460E-12
-9.89401E-01	2.240E-12	2.300E-12	2.358E-12	2.416E-12	2.475E-12
-9.44175E-01	2.283E-12	2.352E-12	2.422E-12	2.482E-12	2.543E-12
-8.65631E-01	2.366E-12	2.452E-12	2.534E-12	2.617E-12	2.701E-12
-7.55044E-01	2.490E-12	2.602E-12	2.718E-12	2.836E-12	2.956E-12
-6.17876E-01	2.662E-12	2.810E-12	2.952E-12	3.098E-12	3.247E-12
-4.58017E-01	2.889E-12	3.090E-12	3.295E-12	3.496E-12	3.699E-12
-2.81605E-01	3.185E-12	3.467E-12	3.745E-12	4.000E-12	4.255E-12
-9.50125E-02	3.565E-12	3.969E-12	4.345E-12	4.700E-12	5.045E-12
2.81605E-01	4.047E-12	4.638E-12	5.205E-12	5.740E-12	6.255E-12
4.58017E-01	4.649E-12	5.385E-12	6.085E-12	6.700E-12	7.295E-12
6.17876E-01	5.385E-12	6.255E-12	7.135E-12	7.960E-12	8.765E-12
7.55044E-01	6.255E-12	7.231E-12	8.236E-12	9.165E-12	1.004E-11
8.65631E-01	7.231E-12	8.236E-12	9.165E-12	1.004E-11	1.094E-11
9.44175E-01	8.236E-12	9.165E-12	1.004E-11	1.094E-11	1.184E-11
9.89401E-01	9.165E-12	1.004E-11	1.094E-11	1.184E-11	1.274E-11
TOTAL	5.568E-11	6.924E-11	8.236E-11	9.165E-11	1.004E-10

## 0.111 TO 1.108 MEV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CH\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00					
-9.89401E-01	3.921E-11	6.375E-11	1.177E-10	1.681E-10	2.320E-10
-9.44575E-01	3.928E-11	6.389E-11	1.181E-10	1.687E-10	2.331E-10
-8.65631E-01	3.954E-11	6.443E-11	1.194E-10	1.711E-10	2.373E-10
-7.55044E-01	4.005E-11	6.549E-11	1.221E-10	1.758E-10	2.457E-10
-6.17876E-01	4.080E-11	6.705E-11	1.261E-10	1.828E-10	2.581E-10
-4.58017E-01	4.177E-11	6.910E-11	1.315E-10	1.923E-10	2.753E-10
-2.81605E-01	4.297E-11	7.164E-11	1.382E-10	2.046E-10	2.981E-10
-9.50125E-02	4.436E-11	7.466E-11	1.464E-10	2.199E-10	3.278E-10
9.50125E-02	4.593E-11	7.812E-11	1.562E-10	2.386E-10	3.658E-10
2.81605E-01	4.765E-11	8.199E-11	1.675E-10	2.609E-10	4.139E-10
4.58017E-01	4.946E-11	8.608E-11	1.801E-10	2.869E-10	4.740E-10
6.17876E-01	5.127E-11	9.031E-11	1.937E-10	3.163E-10	5.474E-10
7.55044E-01	5.298E-11	9.462E-11	2.080E-10	3.483E-10	6.343E-10
8.65631E-01	5.455E-11	9.850E-11	2.217E-10	3.808E-10	7.317E-10
9.44575E-01	5.596E-11	1.018E-10	2.341E-10	4.114E-10	8.319E-10
9.89401E-01	5.690E-11	1.044E-10	2.437E-10	4.363E-10	9.212E-10
	5.693E-11	1.053E-10	2.490E-10	4.513E-10	9.803E-10
TOTAL	5.945E-10	1.026E-09	2.122E-09	3.374E-09	5.681E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00					
-9.89401E-01	2.145E-10	1.731E-10	6.832E-11	2.340E-11	8.187E-12
-9.44575E-01	2.158E-10	1.743E-10	6.941E-11	2.432E-11	8.823E-12
-8.65631E-01	2.211E-10	1.794E-10	7.320E-11	2.688E-11	9.622E-12
-7.55044E-01	2.313E-10	1.883E-10	7.897E-11	3.067E-11	1.062E-11
-6.17876E-01	2.460E-10	2.014E-10	9.521E-11	3.326E-11	1.252E-11
-4.58017E-01	2.663E-10	2.186E-10	9.179E-11	3.485E-11	1.409E-11
-2.81605E-01	2.940E-10	2.422E-10	1.002E-10	3.629E-11	1.585E-11
-9.50125E-02	3.320E-10	2.752E-10	1.136E-10	4.021E-11	1.789E-11
9.50125E-02	3.844E-10	3.222E-10	1.351E-10	4.816E-11	2.122E-11
2.81605E-01	4.569E-10	3.894E-10	1.684E-10	6.098E-11	2.312E-11
4.58017E-01	5.573E-10	4.862E-10	2.194E-10	8.005E-11	2.988E-11
6.17876E-01	6.967E-10	6.275E-10	3.015E-10	1.109E-10	3.959E-11
7.55044E-01	8.884E-10	8.350E-10	4.433E-10	1.713E-10	6.038E-11
8.65631E-01	1.144E-09	1.134E-09	6.970E-10	3.026E-10	1.155E-10
9.44575E-01	1.460E-09	1.540E-09	1.138E-09	5.870E-10	2.599E-10
9.89401E-01	1.800E-09	2.017E-09	1.814E-09	1.138E-09	6.010E-10
	2.067E-09	2.427E-09	2.570E-09	1.924E-09	1.205E-09
TOTAL	7.440E-09	7.018E-09	4.202E-09	2.039E-09	9.371E-10

4.288E-10

## C.111 TO 1.108 MEV NEUTRON SOURCE

(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

4 PI R\*\*2

AIR KERMA (GAMMA)

(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-00	4.250E-11	6.977E-11	1.317E-10	1.929E-10	2.448E-10	2.830E-10	3.170E-10
-9.89401E-01	4.256E-11	6.991E-11	1.321E-10	1.935E-10	2.456E-10	2.841E-10	3.183E-10
-9.44575E-01	4.281E-11	7.042E-11	1.334E-10	1.959E-10	2.490E-10	2.883E-10	3.236E-10
-8.65631E-01	4.330E-11	7.143E-11	1.360E-10	2.004E-10	2.555E-10	2.965E-10	3.339E-10
-7.55044E-01	4.401E-11	7.292E-11	1.398E-10	2.072E-10	2.653E-10	3.089E-10	3.491E-10
-6.17876E-01	4.493E-11	7.487E-11	1.449E-10	2.164E-10	2.786E-10	3.257E-10	3.701E-10
-4.58017E-01	4.606E-11	7.728E-11	1.513E-10	2.281E-10	2.959E-10	3.480E-10	3.983E-10
-2.81605E-01	4.738E-11	8.014E-11	1.592E-10	2.428E-10	3.180E-10	3.768E-10	4.356E-10
-9.50125E-02	4.886E-11	8.341E-11	1.684E-10	2.605E-10	3.454E-10	4.134E-10	4.848E-10
-9.50125E-02	5.048E-11	8.705E-11	1.791E-10	2.817E-10	3.790E-10	4.594E-10	5.495E-10
2.81605E-01	5.218E-11	9.091E-11	1.909E-10	3.063E-10	4.195E-10	5.165E-10	6.342E-10
4.58017E-01	5.388E-11	9.488E-11	2.038E-10	3.339E-10	4.667E-10	5.858E-10	7.439E-10
6.17876E-01	5.548E-11	9.891E-11	2.171E-10	3.639E-10	5.201E-10	6.673E-10	8.831E-10
7.55044E-01	5.695E-11	1.026E-10	2.299E-10	3.943E-10	5.770E-10	7.581E-10	1.052E-09
8.65631E-01	5.828E-11	1.056E-10	2.415E-10	4.228E-10	6.327E-10	8.513E-10	1.243E-09
9.44575E-01	5.915E-11	1.080E-10	2.504E-10	4.459E-10	6.799E-10	9.339E-10	1.428E-09
9.89401E-01	5.918E-11	1.089E-10	2.554E-10	4.597E-10	7.098E-10	9.886E-10	1.561E-09
TOTAL	6.301E-10	1.089E-09	2.265E-09	3.624E-09	4.987E-09	6.207E-09	7.896E-09

## RANGE (METERS)

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
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COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E-00	3.070E-10	2.726E-10	1.484E-10	6.993E-11	3.191E-11	1.456E-11
-9.89401E-01	3.083E-10	2.739E-10	1.495E-10	7.086E-11	3.254E-11	1.491E-11
-9.44575E-01	3.139E-10	2.793E-10	1.537E-10	7.357E-11	3.437E-11	1.604E-11
-8.65631E-01	3.245E-10	2.893E-10	1.602E-10	7.775E-11	3.645E-11	1.702E-11
-7.55044E-01	3.399E-10	3.031E-10	1.677E-10	8.116E-11	3.843E-11	1.815E-11
-6.17876E-01	3.610E-10	3.216E-10	1.761E-10	8.402E-11	3.891E-11	1.803E-11
-4.58017E-01	3.894E-10	3.466E-10	1.868E-10	8.710E-11	3.960E-11	1.808E-11
-2.81605E-01	4.279E-10	3.811E-10	2.027E-10	9.282E-11	4.18CE-11	1.907E-11
-9.50125E-02	4.801E-10	4.290E-10	2.267E-10	1.028E-10	4.581E-11	2.088E-11
9.50125E-02	5.512E-10	4.961E-10	2.621E-10	1.173E-10	5.205E-11	2.361E-11
2.81605E-01	6.484E-10	5.909E-10	3.145E-10	1.381E-10	5.992E-11	2.686E-11
4.58017E-01	7.814E-10	7.268E-10	3.960E-10	1.702E-10	7.077E-11	3.034E-11
6.17876E-01	9.623E-10	9.234E-10	5.326E-10	2.299E-10	9.210E-11	3.744E-11
7.55044E-01	1.201E-09	1.203E-09	7.715E-10	3.547E-10	1.451E-10	5.834E-11
8.65631E-01	1.494E-09	1.579E-09	1.180E-09	6.189E-10	2.796E-10	1.200E-10
9.44575E-01	1.807E-09	2.019E-09	1.802E-09	1.124E-09	5.923E-10	2.869E-10
9.89401E-01	2.053E-09	2.395E-09	2.491E-09	1.840E-09	1.141E-09	6.44CE-10
TOTAL	8.478E-09	8.179E-09	5.213E-09	2.648E-09	1.252E-09	5.813E-10



0.111 TO 1.108 MEV NEUTRON SOURCE

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	4.047E-11	6.582E-11	1.217E-10	1.740E-10	2.411E-10
-9.89401E-01	4.054E-11	6.597E-11	1.221E-10	1.746E-10	2.421E-10
-9.44575E-01	4.080E-11	6.652E-11	1.235E-10	1.771E-10	2.465E-10
-8.65631E-01	4.133E-11	6.761E-11	1.282E-10	1.819E-10	2.550E-10
-7.55044E-01	4.209E-11	6.921E-11	1.303E-10	1.891E-10	2.678E-10
-6.17876E-01	4.309E-11	7.131E-11	1.358E-10	1.988E-10	2.844E-10
-4.58017E-01	4.432E-11	7.392E-11	1.427E-10	2.114E-10	3.057E-10
-2.81605E-01	4.575E-11	7.701E-11	1.511E-10	2.271E-10	3.345E-10
-9.50125E-02	4.736E-11	8.055E-11	1.611E-10	2.462E-10	3.731E-10
9.50125E-02	4.911E-11	8.452E-11	1.727E-10	2.691E-10	4.246E-10
2.81605E-01	5.097E-11	8.871E-11	1.856E-10	2.958E-10	4.931E-10
4.58017E-01	5.283E-11	9.305E-11	1.996E-10	3.259E-10	5.836E-10
6.17876E-01	5.458E-11	9.747E-11	2.142E-10	3.586E-10	7.020E-10
7.55044E-01	5.619E-11	1.015E-10	2.282E-10	3.920E-10	8.538E-10
8.65631E-01	5.764E-11	1.048E-10	2.410E-10	4.234E-10	1.040E-09
9.44575E-01	5.860E-11	1.075E-10	2.508E-10	4.489E-10	1.250E-09
9.89401E-01	5.863E-11	1.084E-10	2.563E-10	4.649E-10	1.455E-09
TOTAL	6.128E-10	1.057E-09	2.188E-09	3.479E-09	5.862E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	2.253E-10	1.833E-10	7.484E-11	2.679E-11	3.825E-12
-9.89401E-01	2.267E-10	1.846E-10	7.595E-11	2.773E-11	4.203E-12
-9.44575E-01	2.322E-10	1.898E-10	7.983E-11	3.036E-11	5.363E-12
-8.65631E-01	2.426E-10	1.992E-10	8.574E-11	3.423E-11	6.276E-12
-7.55044E-01	2.576E-10	2.123E-10	9.209E-11	3.687E-11	7.255E-12
-6.17876E-01	2.784E-10	2.299E-10	9.877E-11	3.847E-11	8.741E-12
-4.58017E-01	3.067E-10	2.539E-10	1.073E-10	3.988E-11	1.040E-11
-2.81605E-01	3.455E-10	2.876E-10	1.209E-10	4.382E-11	1.250E-11
-9.50125E-02	3.991E-10	3.356E-10	1.428E-10	5.188E-11	1.455E-11
9.50125E-02	4.732E-10	4.043E-10	1.767E-10	6.488E-11	1.828E-11
2.81605E-01	5.759E-10	5.033E-10	2.286E-10	8.422E-11	2.490E-11
4.58017E-01	7.186E-10	6.478E-10	3.123E-10	1.155E-10	3.172E-11
6.17876E-01	9.150E-10	8.602E-10	4.572E-10	1.770E-10	4.422E-11
7.55044E-01	1.177E-09	1.167E-09	7.168E-10	3.111E-10	5.95E-11
8.65631E-01	1.501E-09	1.583E-09	1.059E-09	6.022E-10	1.166E-10
9.44575E-01	1.849E-09	2.072E-09	1.863E-09	1.168E-09	2.984E-10
9.89401E-01	2.124E-09	2.493E-09	2.639E-09	1.976E-09	6.991E-10
TOTAL	7.688E-09	7.258E-09	4.356E-09	2.117E-09	4.459E-10

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*2? FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	1.677E 00	1.698E 00	1.739E 00	1.802E 00	1.889E 00	2.006E 00	2.158E 00	2.352E 00	2.625E 00
5.83E 04--3.35E 02	1.350E 00	1.363E 00	1.385E 00	1.417E 00	1.460E 00	1.514E 00	1.582E 00	1.664E 00	1.759E 01
1.01E 04--5.83E 04	6.131F 01	6.141E 01	6.178E 01	6.250E 01	6.353E 01	6.489E 01	6.657E 01	6.859E 01	7.093E 01
2.90E 05--1.01E 04	2.184E 02	2.187E 02	2.197E 02	2.217E 02	2.245E 02	2.281E 02	2.326E 02	2.378E 02	2.437E 02
1.07E 05--2.90E 05	5.512E 02	5.517E 02	5.539E 02	5.580E 02	5.639E 02	5.715E 02	5.806E 02	5.911E 02	6.028E 02
3.06E 06--1.07E 05	1.272E 03	1.273E 03	1.277E 03	1.285E 03	1.296E 03	1.310E 03	1.327E 03	1.347E 03	1.368E 03
1.12E 06--3.06E 06	3.069E 03	3.071E 03	3.080E 03	3.096E 03	3.119E 03	3.149E 03	3.184E 03	3.224E 03	3.267E 03
4.14E 07--1.12E 06	6.144E 03	6.148E 03	6.163E 03	6.192E 03	6.233E 03	6.285E 03	6.346E 03	6.416E 03	6.491E 03
0.0 --4.14E-07	8.236E 03	8.241E 03	8.259E 03	8.294E 03	8.341E 03	8.400E 03	8.469E 03	8.545E 03	8.627E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	3.919E 00	3.939E 00	3.991E 00	3.854E 00	5.066E 00	4.831E 00	9.413E 00	1.865E 01	4.179E 01
5.83E 04--3.35E 02	1.785E 00	1.929E 00	2.019E 00	2.094E 00	2.274E 00	2.547E 00	2.783E 00	2.926E 00	2.282E 01
1.01E 04--5.83E 04	7.362E 01	7.666E 01	7.973E 01	8.274E 01	8.633E 01	9.016E 01	9.426E 01	9.826E 01	9.286E 02
2.90E 05--1.01E 04	2.502E 02	2.571E 02	2.643E 02	2.712E 02	2.779E 02	2.845E 02	2.886E 02	2.909E 02	3.134E 03
1.07E 05--2.90E 05	6.155E 02	6.288E 02	6.421E 02	6.546E 02	6.662E 02	6.763E 02	6.837E 02	6.872E 02	7.696E 03
3.06E 06--1.07E 05	1.391E 03	1.414E 03	1.435E 03	1.459E 03	1.478E 03	1.494E 03	1.506E 03	1.511E 03	1.739E 04
1.12E 06--3.06E 06	3.313E 03	3.360E 03	3.403E 03	3.447E 03	3.484E 03	3.516E 03	3.538E 03	3.549E 03	4.143E 04
4.14E 07--1.12E 06	6.571E 03	6.651E 03	6.729E 03	6.800E 03	6.863E 03	6.915E 03	6.953E 03	6.971E 03	8.220E 04
0.0 --4.14E-07	8.713E 03	8.800E 03	8.885E 03	8.963E 03	9.031E 03	9.087E 03	9.125E 03	9.141E 03	1.091E 05

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E-01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E-01---5.50E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E-02---1.11E-01	1.796E 00	1.802E 00	1.824E 00	1.868E 00	1.932E 00	2.020E 00	2.135E 00	2.282E 00	2.469E 00
5.83E-04---3.35E-02	1.944E 00	1.948E 00	1.966E 00	2.001E 00	2.052E 00	2.121E 00	2.208E 00	2.315E 00	2.448E 00
1.01E-04---5.83E-04	1.157E 02	1.159E 02	1.168E 02	1.185E 02	1.210E 02	1.243E 02	1.283E 02	1.333E 02	1.390E 02
2.90E-05---1.01E-04	4.785E 02	4.793E 02	4.825E 02	4.886E 02	4.973E 02	5.087E 02	5.228E 02	5.395E 02	5.587E 02
1.07E-05---2.90E-05	1.326E 03	1.328E 03	1.336E 03	1.352E 03	1.373E 03	1.401E 03	1.435E 03	1.476E 03	1.522E 03
3.06E-06---1.07E-05	3.321E 03	3.325E 03	3.343E 03	3.376E 03	3.423E 03	3.484E 03	3.558E 03	3.645E 03	3.742E 03
1.12E-06---3.06E-06	8.428E 03	8.438E 03	8.479E 03	8.555E 03	8.622E 03	8.801E 03	8.968E 03	9.162E 03	9.379E 03
4.14E-07---1.12E-06	1.753E 04	1.755E 04	1.763E 04	1.777E 04	1.798E 04	1.824E 04	1.855E 04	1.891E 04	1.931E 04
0.0	2.434E 04	2.436E 04	2.446E 04	2.463E 04	2.488E 04	2.519E 04	2.555E 04	2.591E 04	2.643E 04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E-01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E-01---5.50E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E-02---1.11E-01	1.784E 00	3.733E 00	2.714E 00	4.252E 00	4.058E 00	5.217E 00	6.196E 00	8.052E 00	3.689E 01
5.83E-04---3.35E-02	3.116E 00	2.568E 00	2.959E 00	3.273E 00	3.341E 00	3.746E 00	3.934E 00	4.181E 00	3.380E 01
1.01E-04---5.83E-04	1.461E 02	1.528E 02	1.605E 02	1.697E 02	1.775E 02	1.862E 02	1.931E 02	1.979E 02	1.842E 03
2.90E-05---1.01E-04	5.805E 02	6.036E 02	6.281E 02	6.537E 02	6.778E 02	6.999E 02	7.176E 02	7.285E 02	7.290E 03
1.07E-05---2.90E-05	1.573E 03	1.627E 03	1.683E 03	1.740E 03	1.792E 03	1.839E 03	1.875E 03	1.896E 03	1.970E 04
3.06E-06---1.07E-05	3.849E 03	3.960E 03	4.073E 03	4.185E 03	4.287E 03	4.375E 03	4.441E 03	4.480E 03	4.813E 04
1.12E-06---3.06E-06	9.614E 03	9.857E 03	1.010E 04	1.034E 04	1.055E 04	1.074E 04	1.087E 04	1.095E 04	1.201E 05
4.14E-07---1.12E-06	1.975E 04	2.019E 04	2.064E 04	2.106E 04	2.145E 04	2.177E 04	2.201E 04	2.215E 04	2.467E 05
0.0	2.693E 04	2.743E 04	2.794E 04	2.843E 04	2.886E 04	2.921E 04	2.946E 04	2.961E 04	3.366E 05

4 PI R\*\*2 FLUENCE AT 200.0 METERS 3.00335 TO 0.111 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	1.576E 00	1.581E 00	1.601E 00	1.639E 00	1.695E 00	1.771E 00	1.871E 00	1.994E 00	2.151E 00
5.83E 04--3.35E 02	1.856E 00	1.865E 00	1.878E 00	1.912E 00	1.962E 00	2.028E 00	2.113E 00	2.215E 00	2.335E 00
1.01E 04--5.83E 04	1.223E 02	1.225E 02	1.235E 02	1.255E 02	1.283E 02	1.320E 02	1.366E 02	1.422E 02	1.487E 02
2.90E 05--1.01E 04	5.400E 02	5.410E 02	5.450E 02	5.525E 02	5.635E 02	5.779E 02	5.957E 02	6.168E 02	6.413E 02
1.07E 05--2.90E 05	1.569E 03	1.572E 03	1.583E 03	1.603E 03	1.632E 03	1.670E 03	1.717E 03	1.773E 03	1.836E 03
3.06E 06--1.07E 05	4.121E 03	4.127E 03	4.153E 03	4.201E 03	4.270E 03	4.359E 03	4.468E 03	4.597E 03	4.743E 03
1.12E 06--3.06E 06	1.080E 04	1.082E 04	1.088E 04	1.100E 04	1.116E 04	1.137E 04	1.163E 04	1.194E 04	1.228E 04
4.14E 07--1.12E 06	2.308E 04	2.311E 04	2.323E 04	2.346E 04	2.378E 04	2.420E 04	2.471E 04	2.530E 04	2.596E 04
0.0 --4.14E 07	3.285E 04	3.289E 04	3.305E 04	3.334E 04	3.374E 04	3.425E 04	3.486E 04	3.557E 04	3.636E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	2.140E 00	2.596E 00	3.085E 00	2.914E 00	3.864E 00	3.934E 00	4.918E 00	5.871E 00	3.155E 01
5.83E 04--3.35E 02	2.086E 00	2.895E 00	2.677E 00	3.176E 00	3.188E 00	3.560E 00	3.683E 00	3.902E 00	3.157E 01
1.01E 04--5.83E 04	1.559E 02	1.649E 02	1.736E 02	1.835E 02	1.930E 02	2.022E 02	2.099E 02	2.150E 02	1.977E 03
2.90E 05--1.01E 04	6.687E 02	6.992E 02	7.310E 02	7.639E 02	7.957E 02	8.246E 02	8.477E 02	8.621E 02	8.412E 03
1.07E 05--2.90E 05	1.907E 03	1.984E 03	2.064E 03	2.144E 03	2.21E 03	2.289E 03	2.342E 03	2.374E 03	2.392E 04
3.06E 06--1.07E 05	4.902E 03	5.074E 03	5.250E 03	5.424E 03	5.586E 03	5.727E 03	5.834E 03	5.898E 03	6.137E 04
1.12E 06--3.06E 06	1.265E 04	1.305E 04	1.345E 04	1.384E 04	1.420E 04	1.451E 04	1.475E 04	1.488E 04	1.582E 05
4.14E 07--1.12E 06	2.668E 04	2.743E 04	2.819E 04	2.893E 04	2.960E 04	3.017E 04	3.059E 04	3.084E 04	3.335E 05
0.0 --4.14E 07	3.720E 04	3.810E 04	3.900E 04	3.986E 04	4.064E 04	4.128E 04	4.175E 04	4.202E 04	4.631E 05

4 PI R\*\*2 FLUENCE AT 300.0 METERS

0.00335 TO 0.111 MEV NEUTRON SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.87E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.17E 00--1.87E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.17E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	9.919E-01	9.949E-01	1.007E 00	1.031E 00	1.066E 00	1.113E 00	1.174E 00	1.250E 00	1.344E 00
5.83E 04--3.35E 02	1.281E 00	1.284E 00	1.297E 00	1.321E 00	1.356E 00	1.403E 00	1.463E 00	1.536E 00	1.624E 00
1.01E 04--5.83E 04	9.536E 01	9.557E 01	9.644E 01	9.806E 01	1.004E 02	1.035E 02	1.074E 02	1.121E 02	1.176E 02
2.90E 05--1.01E 04	4.589E 02	4.598E 02	4.637E 02	4.709E 02	4.812E 02	4.948E 02	5.118E 02	5.321E 02	5.568E 02
1.07E 05--2.90E 05	1.426E 03	1.429E 03	1.440E 03	1.461E 03	1.492E 03	1.532E 03	1.582E 03	1.641E 03	1.709E 03
3.06E 06--1.07E 05	4.033E 03	4.045E 03	4.075E 03	4.132E 03	4.212E 03	4.317E 03	4.447E 03	4.600E 03	4.776E 03
1.12E 06--3.06E 06	1.188E 04	1.120E 04	1.127E 04	1.142E 04	1.163E 04	1.190E 04	1.224E 04	1.263E 04	1.308E 04
4.14E 07--1.12E 06	2.503E 04	2.507E 04	2.524E 04	2.555E 04	2.599E 04	2.656E 04	2.726E 04	2.808E 04	2.902E 04
0.0 --4.14E-07	3.735E 04	3.740E 04	3.762E 04	3.803E 04	3.860E 04	3.934E 04	4.024E 04	4.130E 04	4.249E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	1.556E 00	1.530E 00	1.791E 00	1.897E 00	2.169E 00	2.356E 00	2.637E 00	2.883E 00	1.927E 01
5.83E 04--3.35E 02	1.955E 00	1.707E 00	2.047E 00	2.025E 00	2.288E 00	2.334E 00	2.517E 00	2.560E 00	2.212E 01
1.01E 04--5.83E 04	1.240E 02	1.308E 02	1.386E 02	1.464E 02	1.545E 02	1.618E 02	1.679E 02	1.717E 02	1.567E 03
2.90E 05--1.01E 04	5.826E 02	6.117E 02	6.432E 02	6.753E 02	7.066E 02	7.349E 02	7.575E 02	7.713E 02	7.333E 03
1.07E 05--2.90E 05	1.786E 03	1.870E 03	1.959E 03	2.048E 03	2.135E 03	2.212E 03	2.272E 03	2.308E 03	2.244E 04
3.06E 06--1.07E 05	4.973E 03	5.184E 03	5.405E 03	5.627E 03	5.836E 03	6.020E 03	6.163E 03	6.247E 03	6.235E 04
1.12E 06--3.06E 06	1.358E 04	1.411E 04	1.466E 04	1.521E 04	1.572E 04	1.617E 04	1.651E 04	1.671E 04	1.700E 05
4.14E 07--1.12E 06	3.005E 04	3.114E 04	3.227E 04	3.337E 04	3.440E 04	3.529E 04	3.596E 04	3.636E 04	3.759E 05
0.0 --4.14E-07	4.379E 04	4.517E 04	4.659E 04	4.797E 04	4.924E 04	5.032E 04	5.113E 04	5.160E 04	5.478E 05

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01---5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02---1.11E 01	5.472E-01	5.489E-01	5.557E-01	5.586E-01	5.875E-01	6.131E-01	6.458E-01	6.866E-01	7.361E-01
5.87E 02---3.35E 02	7.348E-01	7.366E-01	7.440E-01	7.579E-01	7.780E-01	8.048E-01	8.384E-01	8.793E-01	9.270E-01
1.01E 04---5.87E 02	5.844E 01	5.857E 01	5.912E 01	6.015E 01	6.162E 01	6.358E 01	6.603E 01	6.899E 01	7.245E 01
2.93E 02---1.01E 04	2.934E 02	2.961E 02	2.987E 02	3.035E 02	3.105E 02	3.198E 02	3.313E 02	3.451E 02	3.612E 02
1.07E 05---2.90E 05	9.568E 02	9.588E 02	9.670E 02	9.823E 02	1.004E 03	1.033E 03	1.069E 03	1.112E 03	1.162E 03
2.85E 03---1.07E 05	2.840E 03	2.860E 03	2.883E 03	2.926E 03	2.988E 03	3.070E 03	3.170E 03	3.291E 03	3.429E 03
1.12E 06---3.06E 06	8.220E 03	8.235E 03	8.299E 03	8.418E 03	8.588E 03	8.811E 03	9.086E 03	9.413E 03	9.788E 03
4.14E 07---1.12E 06	1.910E 04	1.913E 04	1.927E 04	1.954E 04	1.991E 04	2.041E 04	2.104E 04	2.174E 04	2.256E 04
0.0 ---4.14E-07	2.960E 04	2.964E 04	2.984E 04	3.020E 04	3.072E 04	3.139E 04	3.221E 04	3.318E 04	3.428E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01---5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02---1.11E 01	7.669E-01	8.816E-01	9.373E-01	1.048E 00	1.135E 00	1.251E 00	1.345E 00	1.431E 00	1.035E 01
5.87E 02---3.35E 02	8.988E-01	1.069E 00	1.094E 00	1.214E 00	1.255E 00	1.352E 00	1.394E 00	1.443E 00	1.244E 01
1.01E 04---5.87E 02	7.640E 01	8.086E 01	8.557E 01	9.056E 01	9.542E 01	9.992E 01	1.035E 02	1.058E 02	9.855E 02
2.90E 05---1.01E 04	3.793E 02	3.694E 02	4.208E 02	4.427E 02	4.640E 02	4.832E 02	4.984E 02	5.077E 02	4.777E 03
1.07E 05---2.90E 05	1.217E 03	1.279E 03	1.344E 03	1.410E 03	1.474E 03	1.531E 03	1.575E 03	1.602E 03	1.531E 04
3.06E 06---1.07E 05	3.584E 03	3.752E 03	3.929E 03	4.108E 03	4.278E 03	4.428E 03	4.544E 03	4.614E 03	4.499E 04
1.12E 06---3.06E 06	1.021E 04	1.066E 04	1.113E 04	1.160E 04	1.204E 04	1.243E 04	1.273E 04	1.291E 04	1.280E 05
4.14E 07---1.12E 06	2.347E 04	2.445E 04	2.546E 04	2.648E 04	2.742E 04	2.825E 04	2.888E 04	2.925E 04	2.940E 05
0.0 ---4.14E-07	3.550E 04	3.680E 04	3.815E 04	3.948E 04	4.072E 04	4.179E 04	4.259E 04	4.307E 04	4.445E 05

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.09894	ANGLE 3 MU=0.09446	ANGLE 4 MU=0.08656	ANGLE 5 MU=0.07550	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	2.824E-01	2.824E-01	2.899E-01	2.925E-01	3.021E-01	3.152E-01	3.318E-01	3.525E-01	3.775E-01
5.83E 02--3.35E 02	3.898E-01	3.898E-01	3.898E-01	3.971E-01	4.076E-01	4.216E-01	4.392E-01	4.607E-01	4.862E-01
1.01E 04--5.83E 02	3.170E 01	3.177E 01	3.207E 01	3.263E 01	3.344E 01	3.452E 01	3.586E 01	3.748E 01	3.937E 01
2.90E 05--1.01E 04	1.648E 02	1.652E 02	1.667E 02	1.694E 02	1.734E 02	1.787E 02	1.853E 02	1.932E 02	2.023E 02
1.07E 05--2.90E 05	5.474E 02	5.485E 02	5.546E 02	5.624E 02	5.753E 02	5.925E 02	6.137E 02	6.392E 02	6.687E 02
3.06E 06--1.07E 05	1.690E 03	1.693E 03	1.700E 03	1.734E 03	1.773E 03	1.823E 03	1.886E 03	1.961E 03	2.048E 03
1.12E 06--3.06E 06	5.010E 03	5.010E 03	5.052E 03	5.128E 03	5.238E 03	5.382E 03	5.560E 03	5.772E 03	6.017E 03
4.14E 07--1.12E 06	1.193E 04	1.195E 04	1.205E 04	1.228E 04	1.247E 04	1.281E 04	1.321E 04	1.370E 04	1.426E 04
0.0	1.903E 04	1.906E 04	1.919E 04	1.946E 04	1.979E 04	2.026E 04	2.083E 04	2.151E 04	2.229E 04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	4.130E-01	4.391E-01	4.833E-01	5.243E-01	5.739E-01	6.197E-01	6.639E-01	6.939E-01	5.274E 00
5.83E 02--3.35E 02	5.379E-01	5.375E-01	5.833E-01	6.154E-01	6.602E-01	6.894E-01	7.214E-01	7.369E-01	6.543E 00
1.01E 04--5.83E 02	4.152E 01	4.292E 01	4.650E 01	4.916E 01	5.177E 01	5.415E 01	5.604E 01	5.721E 01	5.241E 02
2.90E 05--1.01E 04	2.127E 02	2.241E 02	2.363E 02	2.488E 02	2.609E 02	2.717E 02	2.802E 02	2.854E 02	2.678E 03
1.07E 05--2.90E 05	7.020E 02	7.385E 02	7.773E 02	8.168E 02	8.547E 02	8.886E 02	9.151E 02	9.311E 02	8.829E 03
3.06E 06--1.07E 05	2.145E 03	2.251E 03	2.363E 03	2.476E 03	2.583E 03	2.679E 03	2.753E 03	2.797E 03	2.694E 04
1.12E 06--3.06E 06	6.290E 03	6.585E 03	6.897E 03	7.209E 03	7.505E 03	7.766E 03	7.967E 03	8.086E 03	7.892E 04
4.14E 07--1.12E 06	1.488E 04	1.555E 04	1.625E 04	1.694E 04	1.760E 04	1.818E 04	1.862E 04	1.889E 04	1.865E 05
0.0	2.315E 04	2.408E 04	2.504E 04	2.600E 04	2.690E 04	2.768E 04	2.828E 04	2.863E 04	2.901E 05

0.00335 TO 0.111 MEV NEUTRON SOURCE

4. PI R\*\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E-01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E-01--5.50E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E-02--1.11E-01	1.386E-01	1.390E-01	1.408E-01	1.440E-01	1.487E-01	1.550E-01	1.631E-01	1.732E-01	1.852E-01
5.83E-04--3.35E-02	1.909E-01	1.914E-01	1.933E-01	1.969E-01	2.020E-01	2.089E-01	2.176E-01	2.280E-01	2.403E-01
1.01E-04--5.83E-04	1.603E 01	1.606E 01	1.622E 01	1.650E 01	1.691E 01	1.746E 01	1.813E 01	1.895E 01	1.991E 01
2.90E-05--1.01E-04	8.468E 01	8.486E 01	8.564E 01	8.707E 01	8.914E 01	9.188E 01	9.528E 01	9.937E 01	1.041E 02
1.07E-05--2.90E-05	2.854E 02	2.861E 02	2.886E 02	2.934E 02	3.003E 02	3.093E 02	3.206E 02	3.341E 02	3.497E 02
3.06E-06--1.07E-05	9.005E 02	9.024E 02	9.103E 02	9.249E 02	9.459E 02	9.736E 02	1.008E 03	1.049E 03	1.096E 03
1.12E-06--3.06E-06	2.714E 03	2.719E 03	2.742E 03	2.785E 03	2.846E 03	2.927E 03	3.027E 03	3.146E 03	3.284E 03
4.14E-07--1.12E-06	6.591E 03	6.604E 03	6.659E 03	6.760E 03	6.908E 03	7.095E 03	7.330E 03	7.610E 03	7.931E 03
0.0 ----4.14E-07	1.073E 04	1.075E 04	1.083E 04	1.097E 04	1.118E 04	1.146E 04	1.179E 04	1.220E 04	1.266E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E-01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E-01--5.50E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E-02--1.11E-01	1.987E-01	2.166E-01	2.348E-01	2.558E-01	2.773E-01	2.988E-01	3.173E-01	3.299E-01	2.571E 00
5.83E-04--3.35E-02	2.494E-01	2.722E-01	2.863E-01	3.061E-01	3.224E-01	3.395E-01	3.519E-01	3.603E-01	3.215E 00
1.01E-04--5.83E-04	2.100E 01	2.220E 01	2.348E 01	2.481E 01	2.610E 01	2.727E 01	2.819E 01	2.875E 01	2.647E 02
2.90E-05--1.01E-04	1.095E 02	1.154E 02	1.217E 02	1.281E 02	1.343E 02	1.398E 02	1.441E 02	1.467E 02	1.379E 03
1.07E-05--2.90E-05	3.674E 02	3.667E 02	3.673E 02	3.681E 02	3.682E 02	3.680E 02	3.680E 02	3.683E 02	3.620E 03
3.06E-06--1.07E-05	1.150E 03	1.208E 03	1.269E 03	1.331E 03	1.391E 03	1.443E 03	1.484E 03	1.508E 03	1.444E 04
1.12E-06--3.06E-06	3.438E 03	3.605E 03	3.781E 03	3.959E 03	4.127E 03	4.275E 03	4.389E 03	4.458E 03	4.315E 04
4.14E-07--1.12E-06	8.291E 03	8.681E 03	9.089E 03	9.498E 03	9.885E 03	1.022E 04	1.048E 04	1.064E 04	1.040E 05
0.0 ----4.14E-07	1.317E 04	1.373E 04	1.431E 04	1.488E 04	1.543E 04	1.590E 04	1.627E 04	1.649E 04	1.651E 05



0.00335 TO 0.111 MEV NEUTRON SOURCE									
(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01---5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02---1.11E 01	1.423E-02	1.427E-02	1.445E-02	1.477E-02	1.525E-02	1.589E-02	1.670E-02	1.771E-02	1.891E-02
5.83E 04---3.35E 02	1.949E-02	1.974E-02	1.994E-02	2.030E-02	2.083E-02	2.152E-02	2.239E-02	2.345E-02	2.467E-02
1.01E 04---5.83E 04	1.683E 00	1.687E 00	1.703E 00	1.733E 00	1.775E 00	1.832E 00	1.902E 00	1.987E 00	2.085E 00
2.90E 05---1.01E 04	9.039E 00	9.059E 00	9.143E 00	9.295E 00	9.516E 00	9.808E 00	1.017E 01	1.060E 01	1.110E 01
1.07E 05---2.90E 05	3.097E 01	3.103E 01	3.132E 01	3.184E 01	3.259E 01	3.357E 01	3.480E 01	3.627E 01	3.796E 01
3.06E 06---1.07E 05	1.002E 02	1.005E 02	1.015E 02	1.030E 02	1.054E 02	1.085E 02	1.124E 02	1.170E 02	1.224E 02
1.12E 06---3.06E 06	3.089E 02	3.096E 02	3.123E 02	3.172E 02	3.244E 02	3.339E 02	3.456E 02	3.595E 02	3.756E 02
4.14E 07---1.12E 06	7.685E 02	7.701E 02	7.767E 02	7.889E 02	8.063E 02	8.294E 02	8.578E 02	8.918E 02	9.308E 02
0.0 ---4.14E 07	1.286E 03	1.289E 03	1.299E 03	1.317E 03	1.343E 03	1.377E 03	1.420E 03	1.471E 03	1.529E 03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01---5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02---1.11E 01	2.032E-02	2.194E-02	2.374E-02	2.568E-02	2.766E-02	2.953E-02	3.108E-02	3.206E-02	2.601E-01
5.83E 04---3.35E 02	2.609E-02	2.761E-02	2.928E-02	3.098E-02	3.263E-02	3.411E-02	3.528E-02	3.599E-02	3.288E-01
1.01E 04---5.83E 04	2.196E 00	2.318E 00	2.447E 00	2.579E 00	2.706E 00	2.819E 00	2.906E 00	2.959E 00	2.763E 01
2.90E 05---1.01E 04	1.167E 01	1.228E 01	1.294E 01	1.360E 01	1.422E 01	1.478E 01	1.521E 01	1.547E 01	1.466E 02
1.07E 05---2.90E 05	3.987E 01	4.195E 01	4.419E 01	4.637E 01	4.849E 01	5.035E 01	5.180E 01	5.266E 01	5.009E 02
3.06E 06---1.07E 05	1.284E 02	1.350E 02	1.419E 02	1.488E 02	1.554E 02	1.612E 02	1.657E 02	1.683E 02	1.612E 03
1.12E 06---3.06E 06	3.936E 02	4.132E 02	4.337E 02	4.544E 02	4.739E 02	4.911E 02	5.043E 02	5.122E 02	4.939E 03
4.14E 07---1.12E 06	9.745E 02	1.022E 03	1.071E 03	1.121E 03	1.168E 03	1.209E 03	1.241E 03	1.260E 03	1.222E 04
0.0 ---4.14E 07	1.594E 03	1.665E 03	1.738E 03	1.812E 03	1.881E 03	1.942E 03	1.989E 03	2.016E 03	1.999E 04

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 P1 R\*\*2 FLUENCE AT 1200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.5894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	1.290E-03	1.294E-03	1.310E-03	1.339E-03	1.382E-03	1.440E-03	1.513E-03	1.603E-03	1.710E-03
5.83E 04--3.35E 02	1.785E-03	1.789E-03	1.807E-03	1.839E-03	1.887E-03	1.949E-03	2.027E-03	2.120E-03	2.229E-03
1.01E 04--5.83E 04	1.529E-01	1.533E-01	1.547E-01	1.574E-01	1.612E-01	1.663E-01	1.726E-01	1.802E-01	1.889E-01
2.90E 05--1.01E 04	8.232E-01	8.250E-01	8.325E-01	8.463E-01	8.662E-01	8.925E-01	9.250E-01	9.639E-01	1.009E 00
1.07E 05--2.90E 05	2.828E 00	2.834E 00	2.859E 00	2.906E 00	2.974E 00	3.064E 00	3.174E 00	3.306E 00	3.459E 00
3.06E 06--1.07E 05	9.196E 00	9.215E 00	9.297E 00	9.448E 00	9.664E 00	9.950E 00	1.030E 01	1.072E 01	1.121E 01
1.12E 06--3.06E 06	2.846E 01	2.852E 01	2.877E 01	2.923E 01	2.988E 01	3.075E 01	3.182E 01	3.310E 01	3.456E 01
4.14E 07--1.12E 06	7.116E 01	7.130E 01	7.192E 01	7.304E 01	7.465E 01	7.678E 01	7.940E 01	8.253E 01	8.612E 01
0.0	1.198E 02	1.200E 02	1.213E 02	1.226E 02	1.251E 02	1.283E 02	1.323E 02	1.370E 02	1.424E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	1.835E-03	1.977E-03	2.134E-03	2.302E-03	2.470E-03	2.627E-03	2.755E-03	2.834E-03	2.840E-02
5.83E 04--3.35E 02	2.353E-03	2.489E-03	2.633E-03	2.781E-03	2.922E-03	3.049E-03	3.147E-03	3.205E-03	2.962E-02
1.01E 04--5.83E 04	1.988E-01	2.095E-01	2.209E-01	2.324E-01	2.433E-01	2.530E-01	2.604E-01	2.649E-01	2.497E 00
2.90E 05--1.01E 04	1.059E 00	1.114E 00	1.171E 00	1.229E 00	1.284E 00	1.332E 00	1.369E 00	1.391E 00	1.329E 01
1.07E 05--2.90E 05	3.630E 00	3.815E 00	4.010E 00	4.206E 00	4.391E 00	4.554E 00	4.678E 00	4.753E 00	4.555E 01
3.06E 06--1.07E 05	1.175E 01	1.234E 01	1.286E 01	1.358E 01	1.416E 01	1.467E 01	1.506E 01	1.530E 01	1.474E 02
1.12E 06--3.06E 06	3.620E 01	3.757E 01	3.893E 01	4.035E 01	4.184E 01	4.346E 01	4.483E 01	4.603E 01	4.539E 02
4.14E 07--1.12E 06	9.013E 01	9.446E 01	9.898E 01	1.035E 02	1.078E 02	1.115E 02	1.143E 02	1.160E 02	1.130E 03
0.0	1.484E 02	1.550E 02	1.617E 02	1.685E 02	1.748E 02	1.804E 02	1.846E 02	1.871E 02	1.861E 03

## 0.00335 TO 0.111 MEV NEUTRON SOURCE

## 4 PI R\*2 FLUENCE AT 1500.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01---5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02---1.11E 01	1.096E-04	1.099E-04	1.113E-04	1.137E-04	1.174E-04	1.222E-04	1.284E-04	1.359E-04	1.449E-04
5.83E 04---3.35E 02	1.514E-04	1.518E-04	1.533E-04	1.560E-04	1.600E-04	1.652E-04	1.718E-04	1.796E-04	1.887E-04
1.01E 04---5.83E 04	1.297E-02	1.300E-02	1.312E-02	1.335E-02	1.367E-02	1.410E-02	1.463E-02	1.526E-02	1.599E-02
2.90E 05---1.01E 04	6.984E-02	6.999E-02	7.035E-02	7.179E-02	7.346E-02	7.567E-02	7.839E-02	8.166E-02	8.540E-02
1.07E 05---2.90E 05	2.399E-01	2.405E-01	2.426E-01	2.466E-01	2.523E-01	2.598E-01	2.691E-01	2.802E-01	2.929E-01
3.06E 06---1.07E 05	7.808E-01	7.824E-01	7.894E-01	8.021E-01	8.203E-01	8.444E-01	8.740E-01	9.095E-01	9.501E-01
1.12E 06---3.06E 06	2.418E 00	2.423E 00	2.444E 00	2.483E 00	2.538E 00	2.611E 00	2.701E 00	2.808E 00	2.931E 00
4.14E 07---1.12E 06	6.050E 00	6.067E 00	6.114E 00	6.209E 00	6.346E 00	6.525E 00	6.746E 00	7.009E 00	7.310E 00
0.0 ---4.14E 07	1.019E 01	1.021E 01	1.039E 01	1.043E 01	1.064E 01	1.091E 01	1.125E 01	1.165E 01	1.210E 01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01---1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00---1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00---8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00---6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00---4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00---4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00---3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00---2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00---2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00---1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01---1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01---5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02---1.11E 01	1.554E-04	1.672E-04	1.803E-04	1.941E-04	2.078E-04	2.205E-04	2.307E-04	2.370E-04	1.978E-03
5.83E 04---3.35E 02	1.990E-04	2.103E-04	2.233E-04	2.344E-04	2.460E-04	2.563E-04	2.643E-04	2.690E-04	2.503E-03
1.01E 04---5.83E 04	1.681E-02	1.771E-02	1.865E-02	1.960E-02	2.049E-02	2.128E-02	2.189E-02	2.225E-02	2.111E-01
2.90E 05---1.01E 04	8.960E-02	9.415E-02	9.891E-02	1.037E-01	1.082E-01	1.121E-01	1.151E-01	1.169E-01	1.124E 00
1.07E 05---2.90E 05	3.072E-01	3.227E-01	3.388E-01	3.550E-01	3.702E-01	3.835E-01	3.937E-01	3.998E-01	3.853E 00
3.06E 06---1.07E 05	9.955E-01	1.045E 00	1.096E 00	1.147E 00	1.195E 00	1.237E 00	1.269E 00	1.288E 00	1.248E 01
1.12E 06---3.06E 06	3.069E 00	3.217E 00	3.371E 00	3.525E 00	3.669E 00	3.795E 00	3.891E 00	3.947E 00	3.845E 01
4.14E 07---1.12E 06	7.646E 00	8.008E 00	8.385E 00	8.760E 00	9.112E 00	9.418E 00	9.651E 00	9.789E 00	9.580E 01
0.0 ---4.14E 07	1.261E 01	1.315E 01	1.372E 01	1.428E 01	1.481E 01	1.527E 01	1.562E 01	1.582E 01	1.580E 02

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	8.934E-06	8.960E-06	9.049E-06	9.271E-06	9.565E-06	9.960E-06	1.046E-05	1.107E-05	1.180E-05
5.83E 04--3.35E 02	1.233E-05	1.236E-05	1.248E-05	1.270E-05	1.303E-05	1.345E-05	1.398E-05	1.461E-05	1.535E-05
1.01E 04--5.83E 04	1.056E-03	1.059E-03	1.068E-03	1.087E-03	1.113E-03	1.147E-03	1.190E-03	1.241E-03	1.300E-03
2.90E 05--1.01E 04	5.685E-03	5.697E-03	5.749E-03	5.843E-03	5.978E-03	6.157E-03	6.377E-03	6.640E-03	6.942E-03
1.07E 05--2.90E 05	1.953E-02	1.957E-02	1.975E-02	2.007E-02	2.053E-02	2.114E-02	2.189E-02	2.279E-02	2.381E-02
3.06E 06--1.07E 05	6.355E-02	6.368E-02	6.425E-02	6.527E-02	6.675E-02	6.869E-02	7.109E-02	7.395E-02	7.722E-02
1.12E 06--3.06E 06	1.658E-01	1.972E-01	1.989E-01	2.020E-01	2.065E-01	2.124E-01	2.197E-01	2.284E-01	2.383E-01
4.14E 07--1.12E 06	4.924E-01	4.934E-01	4.976E-01	5.053E-01	5.163E-01	5.308E-01	5.487E-01	5.699E-01	5.942E-01
0.0	8.294E-01	8.310E-01	8.374E-01	8.491E-01	8.659E-01	8.878E-01	9.149E-01	9.470E-01	9.836E-01
ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00E 01--1.22E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.19E 00--1.00E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.36E 00--8.19E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.97E 00--6.36E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.07E 00--4.97E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.01E 00--4.07E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.46E 00--3.01E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.35E 00--2.46E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83E 00--2.35E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 00--1.83E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.50E 01--1.11E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.11E 01--5.50E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.35E 02--1.11E 01	1.264E-05	1.350E-05	1.464E-05	1.574E-05	1.683E-05	1.783E-05	1.864E-05	1.913E-05	1.607E-04
5.83E 04--3.35E 02	1.618E-05	1.708E-05	1.804E-05	1.901E-05	1.994E-05	2.075E-05	2.138E-05	2.175E-05	2.033E-04
1.01E 04--5.83E 04	1.366E-03	1.388E-03	1.513E-03	1.589E-03	1.661E-03	1.723E-03	1.771E-03	1.800E-03	1.714E-02
2.90E 05--1.01E 04	7.280E-03	7.645E-03	8.026E-03	8.407E-03	8.765E-03	9.078E-03	9.316E-03	9.457E-03	9.126E-02
1.07E 05--2.90E 05	2.496E-02	2.620E-02	2.749E-02	2.878E-02	3.000E-02	3.105E-02	3.186E-02	3.234E-02	3.128E-01
3.06E 06--1.07E 05	8.087E-02	8.481E-02	8.822E-02	9.100E-02	9.683E-02	1.002E-01	1.027E-01	1.042E-01	1.013E 00
1.12E 06--3.06E 06	2.493E-01	2.612E-01	2.735E-01	2.858E-01	2.973E-01	3.073E-01	3.149E-01	3.194E-01	3.123E 00
4.14E 07--1.12E 06	6.212E-01	6.503E-01	6.805E-01	7.105E-01	7.385E-01	7.628E-01	7.813E-01	7.922E-01	7.780E 00
0.0	1.024E 00	1.068E 00	1.114E 00	1.159E 00	1.201E 00	1.237E 00	1.265E 00	1.281E 00	1.283E 01

4 PI R\*\*2 FLUENCE AT 75.0 METERS

0.00335 TO 0.111 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=1.0000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
6.50E 00---8.00E 00	6.879E-06	6.896E-06	6.963E-06	7.093E-06	7.285E-06	7.541E-06	7.859E-06	8.240E-06	8.683E-06
5.00E 00---6.50E 00	1.432E-05	1.435E-05	1.449E-05	1.476E-05	1.516E-05	1.569E-05	1.635E-05	1.714E-05	1.805E-05
4.00E 00---5.00E 00	1.634E-04	1.638E-04	1.653E-04	1.684E-04	1.728E-04	1.787E-04	1.861E-04	1.949E-04	2.051E-04
3.00E 00---4.00E 00	4.249E-05	4.260E-05	4.304E-05	4.390E-05	4.518E-05	4.685E-05	4.896E-05	5.147E-05	5.438E-05
2.50E 00---3.00E 00	7.796E-05	7.816E-05	7.892E-05	8.042E-05	8.263E-05	8.555E-05	8.919E-05	9.335E-05	9.809E-05
2.00E 00---2.50E 00	1.488E-05	1.496E-05	1.518E-05	1.561E-05	1.626E-05	1.712E-05	1.820E-05	1.951E-05	2.103E-05
1.66E 00---2.00E 00	1.973E-05	1.980E-05	2.007E-05	2.062E-05	2.143E-05	2.251E-05	2.387E-05	2.551E-05	2.742E-05
1.33E 00---1.66E 00	2.379E-05	2.379E-05	2.411E-05	2.476E-05	2.572E-05	2.700E-05	2.860E-05	3.052E-05	3.275E-05
1.00E 00---1.33E 00	3.086E-05	3.097E-05	3.139E-05	3.223E-05	3.347E-05	3.510E-05	3.714E-05	3.955E-05	4.234E-05
8.00E-01---1.00E 00	4.184E-05	4.199E-05	4.256E-05	4.368E-05	4.532E-05	4.747E-05	5.012E-05	5.324E-05	5.678E-05
6.00E-01---8.00E-01	6.030E-05	6.050E-05	6.129E-05	6.282E-05	6.505E-05	6.795E-05	7.147E-05	7.555E-05	8.011E-05
4.00E-01---6.00E-01	2.600E-04	2.605E-04	2.625E-04	2.665E-04	2.721E-04	2.794E-04	2.881E-04	2.981E-04	3.091E-04
3.00E-01---4.00E-01	3.023E-04	3.028E-04	3.049E-04	3.090E-04	3.147E-04	3.219E-04	3.302E-04	3.395E-04	3.495E-04
2.00E-01---3.00E-01	6.002E-04	6.005E-04	6.017E-04	6.041E-04	6.075E-04	6.120E-04	6.174E-04	6.238E-04	6.310E-04
1.00E-01---2.00E-01	1.474E-03	1.475E-03	1.479E-03	1.486E-03	1.496E-03	1.508E-03	1.523E-03	1.540E-03	1.558E-03
5.00E-02---1.00E-01	3.360E-03	3.361E-03	3.367E-03	3.378E-03	3.394E-03	3.415E-03	3.437E-03	3.464E-03	3.492E-03
2.00E-02---5.00E-02	9.115E-04	9.117E-04	9.124E-04	9.138E-04	9.157E-04	9.181E-04	9.209E-04	9.241E-04	9.274E-04
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.153E-04
6.50E 00---8.00E 00	9.190E-06	9.774E-06	1.033E-05	1.077E-05	1.136E-05	1.207E-05	1.227E-05	1.226E-05	1.153E-04
5.00E 00---6.50E 00	1.910E-05	2.031E-05	2.145E-05	2.236E-05	2.357E-05	2.506E-05	2.546E-05	2.544E-05	2.397E-04
4.00E 00---5.00E 00	2.168E-04	2.303E-04	2.430E-04	2.530E-04	2.655E-04	2.833E-04	2.876E-04	2.873E-04	2.720E-03
3.00E 00---4.00E 00	5.772E-05	6.153E-05	6.518E-05	6.824E-05	7.206E-05	7.656E-05	7.799E-05	7.799E-05	7.243E-04
2.50E 00---3.00E 00	1.044E-04	1.110E-04	1.173E-04	1.224E-04	1.290E-04	1.370E-04	1.393E-04	1.392E-04	1.309E-03
2.00E 00---2.50E 00	2.276E-05	2.466E-05	2.664E-05	2.860E-05	3.051E-05	3.225E-05	3.340E-05	3.357E-05	2.860E-04
1.66E 00---2.00E 00	2.554E-05	2.762E-05	2.980E-05	3.193E-05	3.400E-05	3.587E-05	3.712E-05	3.731E-05	3.206E-04
1.33E 00---1.66E 00	2.958E-05	3.194E-05	3.438E-05	3.677E-05	3.905E-05	4.111E-05	4.250E-05	4.272E-05	3.708E-04
1.00E 00---1.33E 00	3.526E-05	3.798E-05	4.078E-05	4.350E-05	4.607E-05	4.837E-05	4.994E-05	5.020E-05	4.411E-04
8.00E-01---1.00E 00	4.543E-05	4.876E-05	5.215E-05	5.540E-05	5.842E-05	6.110E-05	6.292E-05	6.321E-05	5.865E-04
6.00E-01---8.00E-01	6.066E-05	6.477E-05	6.890E-05	7.278E-05	7.635E-05	7.949E-05	8.160E-05	8.190E-05	7.533E-04
4.00E-01---6.00E-01	8.502E-05	9.014E-05	9.517E-05	9.982E-05	1.040E-04	1.077E-04	1.101E-04	1.104E-04	1.052E-03
3.00E-01---4.00E-01	3.208E-04	3.328E-04	3.445E-04	3.553E-04	3.651E-04	3.736E-04	3.791E-04	3.798E-04	3.984E-03
2.00E-01---3.00E-01	6.388E-04	6.470E-04	6.552E-04	6.629E-04	6.700E-04	6.761E-04	6.801E-04	6.808E-04	8.006E-03
1.00E-01---2.00E-01	1.578E-03	1.598E-03	1.617E-03	1.634E-03	1.650E-03	1.663E-03	1.672E-03	1.673E-03	1.974E-02
5.00E-02---1.00E-01	3.522E-03	3.552E-03	3.581E-03	3.607E-03	3.630E-03	3.649E-03	3.662E-03	3.665E-03	4.411E-02
2.00E-02---5.00E-02	9.305E-04	9.344E-04	9.377E-04	9.407E-04	9.432E-04	9.454E-04	9.468E-04	9.473E-04	1.168E-02

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 150.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	1.723E-05	1.730E-05	1.757E-05	1.812E-05	1.894E-05	2.306E-05	2.152E-05	2.337E-05	2.566E-05
5.00E 00---6.50E 00	3.587E-05	3.601E-05	3.659E-05	3.772E-05	3.943E-05	4.176E-05	4.478E-05	4.861E-05	5.334E-05
4.00E 00---5.00E 00	4.105E-04	4.121E-04	4.186E-04	4.313E-04	4.504E-04	4.764E-04	5.102E-04	5.529E-04	6.055E-04
3.00E 00---4.00E 00	1.052E-04	1.056E-04	1.075E-04	1.113E-04	1.168E-04	1.243E-04	1.340E-04	1.462E-04	1.614E-04
2.50E 00---3.00E 00	1.948E-04	1.956E-04	1.989E-04	2.053E-04	2.148E-04	2.277E-04	2.445E-04	2.657E-04	2.919E-04
2.00E 00---2.50E 00	3.455E-05	3.479E-05	3.573E-05	3.758E-05	4.039E-05	4.425E-05	4.936E-05	5.594E-05	6.428E-05
1.66E 00---2.00E 00	3.972E-05	3.996E-05	4.094E-05	4.291E-05	4.593E-05	5.017E-05	5.584E-05	6.319E-05	7.250E-05
1.33E 00---1.66E 00	4.697E-05	4.723E-05	4.832E-05	5.054E-05	5.398E-05	5.884E-05	6.539E-05	7.389E-05	8.463E-05
1.00E 00---1.33E 00	5.688E-05	5.720E-05	5.851E-05	6.118E-05	6.532E-05	7.118E-05	7.904E-05	8.920E-05	1.020E-04
8.00E 01---1.00E 00	7.451E-05	7.496E-05	7.680E-05	8.049E-05	8.612E-05	9.395E-05	1.043E-04	1.175E-04	1.338E-04
6.00E 01---8.00E 01	1.020E-04	1.027E-04	1.054E-04	1.108E-04	1.188E-04	1.297E-04	1.438E-04	1.615E-04	1.829E-04
4.00E 01---6.00E 01	1.507E-04	1.518E-04	1.558E-04	1.638E-04	1.755E-04	1.912E-04	2.111E-04	2.354E-04	2.640E-04
3.00E 01---4.00E 01	8.960E-04	8.996E-04	9.138E-04	9.406E-04	9.782E-04	1.025E-03	1.079E-03	1.138E-03	1.202E-03
2.00E 01---3.00E 01	2.007E-03	2.009E-03	2.015E-03	2.026E-03	2.043E-03	2.066E-03	2.095E-03	2.132E-03	2.175E-03
1.00E 01---2.00E 01	4.997E-03	5.002E-03	5.024E-03	5.065E-03	5.125E-03	5.201E-03	5.294E-03	5.401E-03	5.522E-03
5.00E 02---1.00E 01	1.180E-02	1.181E-02	1.185E-02	1.192E-02	1.202E-02	1.215E-02	1.231E-02	1.248E-02	1.268E-02
2.00E 02---5.00E 02	3.282E-03	3.283E-03	3.288E-03	3.297E-03	3.309E-03	3.325E-03	3.344E-03	3.366E-03	3.389E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	3.735E-04
6.50E 00---8.00E 00	2.861E-05	3.148E-05	3.551E-05	3.994E-05	4.406E-05	4.871E-05	5.214E-05	5.463E-05	5.735E-04
5.00E 00---6.50E 00	5.942E-05	6.574E-05	7.303E-05	8.276E-05	9.123E-05	1.008E-04	1.078E-04	1.130E-04	1.175E-04
4.00E 00---5.00E 00	6.732E-04	7.430E-04	8.303E-04	9.313E-04	1.024E-03	1.130E-03	1.207E-03	1.264E-03	1.311E-03
3.00E 00---4.00E 00	1.508E-04	2.015E-04	2.271E-04	2.566E-04	2.846E-04	3.155E-04	3.386E-04	3.549E-04	3.711E-03
2.50E 00---3.00E 00	3.255E-04	3.605E-04	4.041E-04	4.544E-04	5.011E-04	5.534E-04	5.919E-04	6.196E-04	6.424E-03
2.00E 00---2.50E 00	7.464E-05	8.710E-05	1.018E-04	1.183E-04	1.355E-04	1.523E-04	1.660E-04	1.743E-04	1.809E-03
1.66E 00---2.00E 00	8.404E-05	9.784E-05	1.140E-04	1.320E-04	1.506E-04	1.684E-04	1.828E-04	1.914E-04	1.910E-03
1.33E 00---1.66E 00	9.787E-05	1.136E-04	1.318E-04	1.519E-04	1.723E-04	1.916E-04	2.059E-04	2.160E-04	1.307E-03
1.00E 00---1.33E 00	1.176E-04	1.359E-04	1.568E-04	1.795E-04	2.022E-04	2.233E-04	2.399E-04	2.495E-04	1.555E-03
8.00E 01---1.00E 00	1.235E-04	1.761E-04	2.014E-04	2.282E-04	2.542E-04	2.778E-04	2.959E-04	3.063E-04	1.998E-03
6.00E 01---8.00E 01	2.966E-04	3.317E-04	3.684E-04	4.048E-04	4.379E-04	4.664E-04	4.873E-04	4.988E-04	2.559E-03
4.00E 01---6.00E 01	1.103E-03	1.162E-03	1.263E-03	1.342E-03	1.415E-03	1.478E-03	1.526E-03	1.553E-03	3.714E-03
3.00E 01---4.00E 01	1.268E-03	1.334E-03	1.400E-03	1.464E-03	1.522E-03	1.572E-03	1.609E-03	1.629E-03	1.563E-02
2.00E 01---3.00E 01	2.225E-03	2.280E-03	2.340E-03	2.400E-03	2.457E-03	2.507E-03	2.545E-03	2.566E-03	2.801E-02
1.00E 01---2.00E 01	5.553E-03	5.790E-03	5.928E-03	6.031E-03	6.183E-03	6.286E-03	6.361E-03	6.404E-03	7.070E-02
5.00E 02---1.00E 01	1.289E-02	1.310E-02	1.331E-02	1.351E-02	1.369E-02	1.384E-02	1.395E-02	1.401E-02	1.612E-01
2.00E 02---5.00E 02	3.413E-03	3.438E-03	3.462E-03	3.485E-03	3.504E-03	3.520E-03	3.532E-03	3.539E-03	4.278E-02

4 PI R\*\*2 FLUENCE AT 200.0 METERS

0.00335 TO 0.111 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	2.140E-05	2.150E-05	2.192E-05	2.273E-05	2.397E-05	2.568E-05	2.796E-05	3.094E-05	3.476E-05
6.50E 00---8.00E 00	4.455E-05	4.477E-05	4.535E-05	4.734E-05	4.991E-05	5.347E-05	5.820E-05	6.435E-05	7.225E-05
5.00E 00---6.50E 00	5.107E-04	5.131E-04	5.288E-04	3.419E-04	5.707E-04	6.104E-04	6.632E-04	7.317E-04	8.195E-04
4.00E 00---5.00E 00	1.294E-04	1.302E-04	1.332E-04	1.389E-04	1.474E-04	1.590E-04	1.742E-04	1.940E-04	2.194E-04
3.00E 00---4.00E 00	2.414E-04	2.427E-04	2.476E-04	2.575E-04	2.718E-04	2.917E-04	3.180E-04	3.521E-04	3.960E-04
2.50E 00---3.00E 00	4.105E-05	4.141E-05	4.286E-05	4.571E-05	5.000E-05	5.599E-05	6.410E-05	7.497E-05	8.939E-05
2.00E 00---2.50E 00	4.796E-05	4.829E-05	4.969E-05	5.254E-05	5.703E-05	6.356E-05	7.264E-05	8.490E-05	1.012E-04
1.66E 00---2.00E 00	5.737E-05	5.771E-05	5.916E-05	6.224E-05	6.727E-05	7.477E-05	8.534E-05	9.972E-05	1.187E-04
1.33E 00---1.66E 00	6.981E-05	7.021E-05	7.197E-05	7.507E-05	8.181E-05	9.096E-05	1.038E-04	1.213E-04	1.441E-04
1.00E 00---1.33E 00	9.126E-05	9.190E-05	9.460E-05	1.001E-04	1.089E-04	1.215E-04	1.388E-04	1.619E-04	1.918E-04
8.00E 01---1.00E 00	1.248E-04	1.259E-04	1.303E-04	1.391E-04	1.522E-04	1.704E-04	1.948E-04	2.265E-04	2.677E-04
6.00E 01---8.00E 01	1.868E-04	1.885E-04	1.956E-04	2.092E-04	2.294E-04	2.568E-04	2.925E-04	3.378E-04	3.932E-04
4.00E 01---6.00E 01	1.008E-03	1.012E-03	1.032E-03	1.070E-03	1.127E-03	1.203E-03	1.298E-03	1.412E-03	1.544E-03
3.00E 01---4.00E 01	1.251E-03	1.259E-03	1.288E-03	1.342E-03	1.418E-03	1.511E-03	1.618E-03	1.735E-03	1.858E-03
2.00E 01---3.00E 01	3.068E-03	3.070E-03	3.080E-03	3.099E-03	3.126E-03	3.165E-03	3.215E-03	3.280E-03	3.361E-03
1.00E 01---2.00E 01	7.717E-03	7.728E-03	7.768E-03	7.847E-03	7.959E-03	8.106E-03	8.285E-03	8.497E-03	8.737E-03
5.00E 02---1.00E 01	1.873E-02	1.874E-02	1.882E-02	1.898E-02	1.916E-02	1.942E-02	1.973E-02	2.009E-02	2.049E-02
2.00E 02---5.00E 02	5.286E-03	5.289E-03	5.298E-03	5.316E-03	5.342E-03	5.374E-03	5.412E-03	5.457E-03	5.505E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	3.954E-05	4.576E-05	5.303E-05	6.192E-05	7.164E-05	8.190E-05	9.104E-05	9.740E-05	5.468E-04
6.50E 00---8.00E 00	8.209E-05	9.490E-05	1.099E-04	1.281E-04	1.481E-04	1.691E-04	1.878E-04	2.009E-04	1.133E-03
5.00E 00---6.50E 00	9.284E-04	1.070E-03	1.235E-03	1.435E-03	1.653E-03	1.894E-03	2.088E-03	2.230E-03	1.277E-02
4.00E 00---5.00E 00	2.514E-04	2.931E-04	3.423E-04	4.025E-04	4.687E-04	5.384E-04	6.006E-04	6.432E-04	3.502E-03
3.00E 00---4.00E 00	4.506E-04	5.217E-04	6.046E-04	7.056E-04	8.156E-04	9.309E-04	1.033E-03	1.103E-03	6.221E-03
2.50E 00---3.00E 00	1.083E-04	1.326E-04	1.630E-04	1.996E-04	2.408E-04	2.831E-04	3.203E-04	3.445E-04	1.587E-03
2.00E 00---2.50E 00	1.224E-04	1.496E-04	1.832E-04	2.232E-04	2.675E-04	3.121E-04	3.507E-04	3.753E-04	1.778E-03
1.66E 00---2.00E 00	1.433E-04	1.746E-04	2.128E-04	2.575E-04	3.058E-04	3.536E-04	3.940E-04	4.193E-04	2.055E-03
1.33E 00---1.66E 00	1.735E-04	2.103E-04	2.545E-04	3.050E-04	3.585E-04	4.100E-04	4.525E-04	4.785E-04	2.446E-03
1.00E 00---1.33E 00	2.295E-04	2.756E-04	3.293E-04	3.886E-04	4.491E-04	5.053E-04	5.502E-04	5.770E-04	3.146E-03
8.00E 01---1.00E 00	3.160E-04	3.742E-04	4.392E-04	5.080E-04	5.753E-04	6.355E-04	6.821E-04	7.093E-04	4.167E-03
6.00E 01---8.00E 01	4.582E-04	5.313E-04	6.088E-04	6.867E-04	7.596E-04	8.226E-04	8.703E-04	8.978E-04	5.849E-03
4.00E 01---6.00E 01	1.691E-03	1.848E-03	2.011E-03	2.174E-03	2.328E-03	2.465E-03	2.572E-03	2.636E-03	2.113E-02
3.00E 01---4.00E 01	1.985E-03	2.116E-03	2.247E-03	2.377E-03	2.499E-03	2.606E-03	2.689E-03	2.738E-03	2.442E-02
2.00E 01---3.00E 01	3.457E-03	3.569E-03	3.629E-03	3.820E-03	3.945E-03	4.058E-03	4.146E-03	4.198E-03	4.376E-02
1.00E 01---2.00E 01	9.001E-03	9.284E-03	9.574E-03	9.861E-03	1.013E-02	1.035E-02	1.052E-02	1.062E-02	1.177E-01
5.00E 02---1.00E 01	2.093E-02	2.138E-02	2.183E-02	2.227E-02	2.266E-02	2.299E-02	2.325E-02	2.337E-02	2.617E-01
2.00E 02---5.00E 02	5.556E-03	5.608E-03	5.660E-03	5.708E-03	5.751E-03	5.786E-03	5.811E-03	5.826E-03	6.961E-02

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.0894	MU=-0.0446	MU=-0.0856	MU=-0.0750	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
2.158E-05	2.171E-05	2.224E-05	2.328E-05	2.487E-05	2.710E-05	2.710E-05	3.017E-05	3.437E-05	4.010E-05
4.483E-05	4.511E-05	4.625E-05	4.848E-05	5.181E-05	5.646E-05	6.282E-05	7.149E-05	8.331E-05	9.433E-05
5.00E 00--6.50E 00	5.155E-04	5.187E-04	5.313E-04	5.560E-04	5.931E-04	6.450E-04	7.159E-04	8.123E-04	9.433E-04
4.00E 00--5.00E 00	1.265E-04	1.277E-04	1.324E-04	1.411E-04	1.530E-04	1.684E-04	1.888E-04	2.165E-04	2.549E-04
3.00E 00--4.00E 00	2.409E-04	2.427E-04	2.497E-04	2.631E-04	2.824E-04	3.086E-04	3.440E-04	3.922E-04	4.582E-04
2.50E 00--3.00E 00	3.780E-05	3.837E-05	4.058E-05	4.470E-05	5.059E-05	5.865E-05	6.990E-05	8.598E-05	1.092E-04
2.00E 00--2.50E 00	4.737E-05	4.767E-05	4.902E-05	5.208E-05	5.748E-05	6.615E-05	7.915E-05	9.794E-05	1.248E-04
1.66E 00--2.00E 00	5.915E-05	5.923E-05	5.996E-05	6.236E-05	6.781E-05	7.778E-05	9.343E-05	1.162E-04	1.484E-04
1.33E 00--1.66E 00	7.270E-05	7.276E-05	7.355E-05	7.639E-05	8.313E-05	9.560E-05	1.152E-04	1.436E-04	1.836E-04
1.00E 00--1.33E 00	9.240E-05	9.295E-05	9.565E-05	1.019E-04	1.132E-04	1.315E-04	1.587E-04	1.976E-04	2.525E-04
8.00E-01--1.00E 00	1.216E-04	1.234E-04	1.304E-04	1.438E-04	1.638E-04	1.920E-04	2.317E-04	2.879E-04	3.664E-04
6.00E-01--8.00E-01	1.849E-04	1.881E-04	2.007E-04	2.241E-04	2.575E-04	3.034E-04	3.670E-04	4.547E-04	5.714E-04
4.00E-01--6.00E-01	1.252E-03	1.260E-03	1.293E-03	1.360E-03	1.462E-03	1.605E-03	1.794E-03	2.028E-03	2.305E-03
3.00E-01--4.00E-01	1.615E-03	1.631E-03	1.699E-03	1.825E-03	1.999E-03	2.212E-03	2.450E-03	2.703E-03	2.962E-03
2.00E-01--3.00E-01	4.833E-03	4.848E-03	4.875E-03	4.916E-03	4.973E-03	5.054E-03	5.167E-03	5.300E-03	5.450E-03
1.00E-01--2.00E-01	1.240E-02	1.242E-02	1.250E-02	1.267E-02	1.290E-02	1.320E-02	1.358E-02	1.404E-02	1.457E-02
5.00E-02--1.00E-01	3.180E-02	3.184E-02	3.200E-02	3.232E-02	3.276E-02	3.335E-02	3.406E-02	3.490E-02	3.586E-02
2.00E-02--5.00E-02	9.224E-03	9.229E-03	9.251E-03	9.292E-03	9.350E-03	9.425E-03	9.515E-03	9.619E-03	9.735E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
4.786E-05	5.866E-05	7.327E-05	9.269E-05	1.176E-04	1.470E-04	1.773E-04	2.008E-04	2.195E-04	7.635E-04
9.950E-05	1.215E-04	1.514E-04	1.912E-04	2.420E-04	3.025E-04	3.638E-04	4.115E-04	4.485E-04	1.577E-03
5.00E 00--6.50E 00	1.122E-03	1.363E-03	1.690E-03	2.121E-03	2.670E-03	3.315E-03	3.976E-03	4.685E-03	1.760E-02
4.00E 00--5.00E 00	3.082E-04	3.815E-04	4.822E-04	6.171E-04	7.912E-04	9.975E-04	1.209E-03	1.370E-03	5.008E-03
3.00E 00--4.00E 00	5.488E-04	6.720E-04	8.396E-04	1.061E-03	1.343E-03	1.673E-03	2.007E-03	2.260E-03	8.706E-03
2.00E 00--3.00E 00	1.427E-04	1.909E-04	2.591E-04	3.525E-04	4.728E-04	6.130E-04	7.516E-04	8.518E-04	2.618E-03
2.50E 00--2.50E 00	1.532E-04	2.180E-04	2.949E-04	3.983E-04	5.278E-04	6.738E-04	8.135E-04	9.118E-04	2.933E-03
1.66E 00--2.00E 00	1.940E-04	2.586E-04	3.478E-04	4.646E-04	6.059E-04	7.591E-04	9.002E-04	9.963E-04	3.391E-03
1.33E 00--1.66E 00	2.399E-04	3.183E-04	4.238E-04	5.572E-04	7.121E-04	8.725E-04	1.015E-03	1.108E-03	4.038E-03
1.00E 00--1.33E 00	3.286E-04	4.310E-04	5.623E-04	7.192E-04	8.907E-04	1.058E-03	1.198E-03	1.266E-03	5.200E-03
8.00E-01--1.00E 00	4.718E-04	6.065E-04	7.677E-04	9.470E-04	1.130E-03	1.299E-03	1.433E-03	1.515E-03	6.944E-03
6.00E-01--8.00E-01	7.185E-04	8.917E-04	1.082E-03	1.277E-03	1.463E-03	1.627E-03	1.755E-03	1.832E-03	9.669E-03
4.00E-01--6.00E-01	2.618E-03	2.958E-03	3.316E-03	3.683E-03	4.047E-03	4.384E-03	4.670E-03	4.851E-03	3.311E-02
3.00E-01--4.00E-01	3.224E-03	3.492E-03	3.771E-03	4.062E-03	4.354E-03	4.627E-03	4.850E-03	4.987E-03	3.950E-02
2.00E-01--3.00E-01	5.518E-03	5.761E-03	6.044E-03	6.354E-03	6.670E-03	6.966E-03	7.207E-03	7.358E-03	7.083E-02
1.00E-01--2.00E-01	1.517E-02	1.583E-02	1.652E-02	1.723E-02	1.791E-02	1.851E-02	1.898E-02	1.926E-02	1.908E-01
5.00E-02--1.00E-01	3.691E-02	3.802E-02	3.917E-02	4.029E-02	4.133E-02	4.225E-02	4.289E-02	4.328E-02	4.620E-01
2.00E-02--5.00E-02	9.859E-03	9.988E-03	1.012E-02	1.024E-02	1.035E-02	1.044E-02	1.051E-02	1.055E-02	1.235E-01



0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 400.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9804	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	1.578E-05	1.590E-05	1.638E-05	1.729E-05	1.865E-05	2.057E-05	2.324E-05	2.703E-05	3.247E-05
6.50E 00--8.00E 00	3.256E-05	3.284E-05	3.394E-05	3.600E-05	3.893E-05	4.293E-05	4.844E-05	5.622E-05	6.742E-05
5.00E 00--6.50E 00	3.763E-04	3.792E-04	3.911E-04	4.135E-04	4.457E-04	4.902E-04	5.516E-04	6.381E-04	7.618E-04
4.00E 00--5.00E 00	8.569E-05	8.750E-05	9.392E-05	1.043E-04	1.163E-04	1.297E-04	1.467E-04	1.710E-04	2.076E-04
3.00E 00--4.00E 00	1.713E-04	1.734E-04	1.832E-04	1.953E-04	2.132E-04	2.358E-04	2.660E-04	3.091E-04	3.720E-04
2.50E 00--3.00E 00	2.399E-05	2.479E-05	2.766E-05	3.235E-05	3.806E-05	4.514E-05	5.501E-05	7.009E-05	9.375E-05
2.00E 00--2.50E 00	3.626E-05	3.625E-05	3.653E-05	3.795E-05	4.181E-05	4.943E-05	6.191E-05	8.071E-05	1.087E-04
1.66E 00--2.00E 00	4.971E-05	4.900E-05	4.697E-05	4.390E-05	4.803E-05	5.701E-05	7.320E-05	9.715E-05	1.315E-04
1.33E 00--1.66E 00	6.204E-05	6.102E-05	5.809E-05	5.503E-05	5.903E-05	7.072E-05	9.160E-05	1.223E-04	1.655E-04
1.00E 00--1.33E 00	7.269E-05	7.248E-05	7.261E-05	7.544E-05	8.436E-05	1.021E-04	1.305E-04	1.731E-04	2.373E-04
8.00E 01--1.00E 00	8.348E-05	8.563E-05	9.401E-05	1.091E-04	1.296E-04	1.577E-04	1.988E-04	2.629E-04	3.626E-04
6.00E 01--8.00E 01	1.255E-04	1.301E-04	1.474E-04	1.764E-04	2.135E-04	2.625E-04	3.349E-04	4.462E-04	6.100E-04
4.00E 01--6.00E 01	1.177E-03	1.185E-03	1.220E-03	1.295E-03	1.416E-03	1.599E-03	1.852E-03	2.177E-03	2.568E-03
3.00E 01--4.00E 01	1.544E-03	1.569E-03	1.671E-03	1.864E-03	2.130E-03	2.455E-03	2.812E-03	3.177E-03	3.532E-03
2.00E 01--3.00E 01	5.734E-03	5.738E-03	5.753E-03	5.779E-03	5.815E-03	5.865E-03	5.942E-03	6.044E-03	6.250E-03
1.00E 01--2.00E 01	1.494E-02	1.497E-02	1.509E-02	1.531E-02	1.563E-02	1.606E-02	1.660E-02	1.725E-02	1.801E-02
5.00E 02--1.00E 01	4.037E-02	4.043E-02	4.067E-02	4.114E-02	4.180E-02	4.268E-02	4.376E-02	4.504E-02	4.652E-02
2.00E 02--5.00E 02	1.197E-02	1.198E-02	1.201E-02	1.207E-02	1.216E-02	1.228E-02	1.241E-02	1.257E-02	1.276E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	4.038E-05	5.207E-05	6.954E-05	9.568E-05	1.338E-04	1.857E-04	2.472E-04	3.011E-04	7.832E-04
6.50E 00--8.00E 00	8.370E-05	1.077E-04	1.434E-04	1.967E-04	2.741E-04	3.794E-04	5.037E-04	6.122E-04	1.611E-03
5.00E 00--6.50E 00	9.406E-04	1.202E-03	1.588E-03	2.159E-03	2.983E-03	4.094E-03	5.397E-03	6.531E-03	1.772E-02
4.00E 00--5.00E 00	2.625E-04	3.442E-04	4.670E-04	6.530E-04	9.278E-04	1.304E-03	1.743E-03	2.118E-03	5.293E-03
3.00E 00--4.00E 00	4.643E-04	6.002E-04	8.025E-04	1.104E-03	1.538E-03	2.120E-03	2.787E-03	3.351E-03	8.952E-03
2.50E 00--3.00E 00	1.309E-04	1.895E-04	2.828E-04	4.278E-04	6.405E-04	9.207E-04	1.230E-03	1.476E-03	3.218E-03
2.00E 00--2.50E 00	1.518E-04	2.202E-04	3.285E-04	4.930E-04	7.239E-04	1.013E-03	1.318E-03	1.550E-03	3.608E-03
1.66E 00--2.00E 00	1.841E-04	2.673E-04	3.971E-04	5.871E-04	8.405E-04	1.140E-03	1.437E-03	1.654E-03	4.175E-03
1.33E 00--1.66E 00	2.339E-04	3.392E-04	4.980E-04	7.193E-04	9.970E-04	1.304E-03	1.591E-03	1.788E-03	4.976E-03
1.00E 00--1.33E 00	3.354E-04	4.819E-04	6.873E-04	9.506E-04	1.256E-03	1.561E-03	1.826E-03	1.996E-03	6.414E-03
8.00E 01--1.00E 00	5.105E-04	7.143E-04	9.724E-04	1.271E-03	1.583E-03	1.874E-03	2.109E-03	2.233E-03	8.535E-03
6.00E 01--8.00E 01	8.312E-04	1.102E-03	1.405E-03	1.716E-03	2.013E-03	2.276E-03	2.486E-03	2.617E-03	1.191E-02
4.00E 01--6.00E 01	3.010E-03	3.489E-03	3.991E-03	4.510E-03	5.040E-03	5.562E-03	6.026E-03	6.342E-03	3.837E-02
3.00E 01--4.00E 01	3.876E-03	4.225E-03	4.601E-03	5.017E-03	5.462E-03	5.899E-03	6.268E-03	6.502E-03	4.728E-02
2.00E 01--3.00E 01	6.512E-03	6.854E-03	7.267E-03	7.734E-03	8.225E-03	8.701E-03	9.102E-03	9.360E-03	8.487E-02
1.00E 01--2.00E 01	1.890E-02	1.988E-02	2.095E-02	2.206E-02	2.316E-02	2.415E-02	2.493E-02	2.542E-02	2.388E-01
5.00E 02--1.00E 01	4.817E-02	4.995E-02	5.181E-02	5.366E-02	5.540E-02	5.693E-02	5.809E-02	5.879E-02	6.041E-01
2.00E 02--5.00E 02	1.295E-02	1.316E-02	1.336E-02	1.356E-02	1.374E-02	1.389E-02	1.400E-02	1.407E-02	1.622E-01

## 0.00335 TO 0.111 MEV NEUTRON SOURCE

## 4 PI P\*\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0856	ANGLE 4 MU=0.0656	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
8.00E-00--1.00E-01	9.522E-06	9.619E-06	1.000E-05	1.089E-05	1.165E-05	1.295E-05	1.476E-05	1.740E-05	2.138E-05
6.50E-00--8.00E-01	1.931E-05	1.957E-05	2.056E-05	2.226E-05	2.443E-05	2.714E-05	3.080E-05	3.617E-05	4.435E-05
5.00E-00--6.50E-01	2.255E-04	2.281E-04	2.560E-04	2.793E-04	3.092E-04	3.463E-04	3.924E-04	4.503E-04	5.003E-04
4.00E-00--5.00E-01	4.197E-05	4.460E-05	5.299E-05	6.469E-05	7.564E-05	8.483E-05	9.434E-05	1.094E-04	1.363E-04
3.00E-00--4.00E-01	9.620E-05	9.872E-05	1.076E-04	1.212E-04	1.356E-04	1.506E-04	1.696E-04	1.986E-04	2.451E-04
2.50E-00--3.00E-01	1.005E-05	1.125E-05	1.492E-05	1.998E-05	2.496E-05	2.974E-05	3.577E-05	4.625E-05	6.499E-05
2.00E-00--2.50E-01	2.544E-05	2.504E-05	2.388E-05	2.303E-05	2.453E-05	2.992E-05	3.995E-05	5.517E-05	7.767E-05
1.66E-00--2.00E-01	4.107E-05	3.930E-05	3.333E-05	2.640E-05	2.530E-05	3.299E-05	4.815E-05	6.874E-05	9.656E-05
1.33E-00--1.66E-01	5.245E-05	4.994E-05	4.149E-05	3.188E-05	3.081E-05	4.162E-05	6.159E-05	8.808E-05	1.246E-04
1.00E-00--1.33E-01	5.327E-05	5.103E-05	4.802E-05	4.532E-05	5.001E-05	6.482E-05	8.961E-05	1.262E-04	1.837E-04
8.00E-01--1.00E-00	4.257E-05	4.512E-05	5.451E-05	6.968E-05	8.754E-05	1.109E-04	1.410E-04	1.971E-04	2.974E-04
6.00E-01--8.00E-01	5.772E-05	6.427E-05	8.629E-05	1.183E-04	1.523E-04	1.991E-04	2.539E-04	3.654E-04	5.510E-04
4.00E-01--6.00E-01	9.661E-04	9.721E-04	1.000E-03	1.054E-03	1.180E-03	1.369E-03	1.645E-03	2.012E-03	2.460E-03
3.00E-01--4.00E-01	1.258E-03	1.286E-03	1.410E-03	1.642E-03	1.963E-03	2.364E-03	2.796E-03	3.218E-03	3.604E-03
2.00E-01--3.00E-01	5.846E-03	5.850E-03	5.864E-03	5.884E-03	5.902E-03	5.926E-03	5.972E-03	6.069E-03	6.243E-03
1.00E-01--2.00E-01	1.535E-02	1.538E-02	1.551E-02	1.576E-02	1.612E-02	1.659E-02	1.720E-02	1.794E-02	1.881E-02
5.00E-02--1.00E-01	4.336E-02	4.343E-02	4.372E-02	4.426E-02	4.505E-02	4.609E-02	4.738E-02	4.895E-02	5.073E-02
2.00E-02--5.00E-02	1.308E-02	1.309E-02	1.313E-02	1.320E-02	1.330E-02	1.344E-02	1.361E-02	1.380E-02	1.402E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08566	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E-00--1.00E-01	2.750E-05	3.712E-05	5.278E-05	7.889E-05	1.223E-04	1.905E-04	2.839E-04	3.776E-04	6.850E-04
6.50E-00--8.00E-01	5.696E-05	7.670E-05	1.086E-04	1.615E-04	2.493E-04	3.869E-04	5.744E-04	7.610E-04	1.400E-03
5.00E-00--6.50E-01	6.379E-04	8.514E-04	1.193E-03	1.753E-03	2.672E-03	4.096E-03	6.021E-03	7.927E-03	1.513E-02
4.00E-00--5.00E-01	1.806E-04	2.501E-04	3.620E-04	5.518E-04	8.751E-04	1.386E-03	2.070E-03	2.725E-03	4.788E-03
3.00E-00--4.00E-01	3.180E-04	4.317E-04	6.147E-04	9.195E-04	1.421E-03	2.188E-03	3.188E-03	4.131E-03	7.843E-03
2.50E-00--3.00E-01	9.674E-05	1.508E-04	2.460E-04	4.141E-04	6.541E-04	1.110E-03	1.619E-03	2.062E-03	3.366E-03
2.00E-00--2.50E-01	1.140E-04	1.781E-04	2.936E-04	4.913E-04	8.004E-04	1.228E-03	1.719E-03	2.124E-03	3.782E-03
1.66E-00--2.00E-01	1.412E-04	2.223E-04	3.671E-04	6.036E-04	9.473E-04	1.385E-03	1.850E-03	2.211E-03	4.382E-03
1.33E-00--1.66E-01	1.851E-04	2.938E-04	4.793E-04	7.823E-04	1.141E-03	1.582E-03	2.013E-03	2.322E-03	5.228E-03
1.00E-00--1.33E-01	2.617E-04	4.459E-04	6.976E-04	1.040E-03	1.450E-03	1.876E-03	2.400E-03	2.490E-03	6.742E-03
8.00E-01--1.00E-00	4.628E-04	7.080E-04	1.033E-03	1.419E-03	1.826E-03	2.208E-03	2.513E-03	2.700E-03	8.960E-03
6.00E-01--8.00E-01	8.190E-04	1.157E-03	1.536E-03	1.921E-03	2.282E-03	2.602E-03	2.861E-03	3.029E-03	1.248E-02
4.00E-01--6.00E-01	2.964E-03	3.499E-03	4.047E-03	4.608E-03	5.193E-03	5.800E-03	6.375E-03	6.791E-03	3.775E-02
3.00E-01--4.00E-01	3.955E-03	4.304E-03	4.694E-03	5.156E-03	5.679E-03	6.212E-03	6.672E-03	6.967E-03	4.791E-02
2.00E-01--3.00E-01	6.516E-03	6.892E-03	7.359E-03	7.898E-03	8.477E-03	9.050E-03	9.549E-03	9.878E-03	8.612E-02
1.00E-01--2.00E-01	1.984E-02	2.099E-02	2.261E-02	2.361E-02	2.477E-02	2.619E-02	2.719E-02	2.782E-02	2.517E-01
5.00E-02--1.00E-01	5.275E-02	5.496E-02	5.729E-02	5.965E-02	6.190E-02	6.389E-02	6.543E-02	6.635E-02	6.628E-01
2.00E-02--5.00E-02	1.426E-02	1.452E-02	1.478E-02	1.502E-02	1.525E-02	1.544E-02	1.559E-02	1.567E-02	1.787E-01

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*2 FLUENCE AT 600.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	5.002E-06	5.086E-06	5.395E-06	5.909E-06	6.533E-06	7.288E-06	8.311E-06	9.868E-06	1.235E-05
6.50E 00---8.00E 00	9.710E-06	9.975E-06	1.091E-05	1.233E-05	1.384E-05	1.546E-05	1.737E-05	2.044E-05	2.554E-05
5.00E 00---6.50E 00	1.164E-04	1.189E-04	1.278E-04	1.418E-04	1.574E-04	1.746E-04	1.970E-04	2.316E-04	2.878E-04
4.00E 00---5.00E 00	9.833E-06	1.365E-05	2.367E-05	3.672E-05	4.727E-05	5.075E-05	5.208E-05	5.944E-05	7.115E-05
3.00E 00---4.00E 00	4.147E-05	4.456E-05	5.495E-05	6.792E-05	7.932E-05	8.748E-05	9.555E-05	1.107E-04	1.405E-04
2.50E 00---3.00E 00	1.227E-07	1.723E-06	5.951E-06	1.182E-05	1.600E-05	1.748E-05	1.990E-05	2.664E-05	3.960E-05
2.00E 00---2.50E 00	1.811E-05	1.739E-05	1.499E-05	1.212E-05	1.158E-05	1.522E-05	2.314E-05	3.438E-05	4.958E-05
1.66E 00---2.00E 00	3.607E-05	3.332E-05	2.265E-05	1.097E-05	9.134E-06	1.576E-05	2.832E-05	4.508E-05	6.447E-05
1.33E 00---1.66E 00	4.740E-05	4.348E-05	2.782E-05	1.223E-05	1.125E-05	2.003E-05	3.721E-05	5.953E-05	8.264E-05
1.00E 00---1.33E 00	4.079E-05	3.831E-05	2.988E-05	2.174E-05	2.387E-05	3.670E-05	5.617E-05	8.239E-05	1.252E-04
8.00E-01---1.00E 00	1.218E-05	1.531E-05	2.554E-05	4.054E-05	5.558E-05	6.917E-05	8.793E-05	1.291E-04	2.172E-04
6.00E-01---8.00E-01	4.135E-06	1.409E-05	3.921E-05	7.486E-05	1.036E-04	1.261E-04	1.691E-04	2.682E-04	4.534E-04
4.00E-01---6.00E-01	7.459E-04	7.491E-04	7.663E-04	8.125E-04	9.094E-04	1.083E-03	1.351E-03	1.720E-03	2.174E-03
3.00E-01---4.00E-01	9.420E-04	9.713E-04	1.098E-03	1.338E-03	1.682E-03	2.109E-03	2.564E-03	2.994E-03	3.595E-03
2.00E-01---3.00E-01	5.452E-03	5.456E-03	5.465E-03	5.480E-03	5.481E-03	5.473E-03	5.480E-03	5.534E-03	5.673E-03
1.00E-01---2.00E-01	1.430E-02	1.433E-02	1.445E-02	1.470E-02	1.505E-02	1.552E-02	1.612E-02	1.684E-02	1.772E-02
5.00E-02---1.00E-01	4.188E-02	4.195E-02	4.225E-02	4.281E-02	4.361E-02	4.468E-02	4.601E-02	4.762E-02	4.949E-02
2.00E-02---5.00E-02	1.279E-02	1.280E-02	1.284E-02	1.291E-02	1.302E-02	1.316E-02	1.334E-02	1.354E-02	1.377E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	1.636E-05	2.301E-05	3.464E-05	5.613E-05	9.675E-05	1.707E-04	2.882E-04	4.236E-04	5.516E-04
6.50E 00---8.00E 00	3.387E-05	4.754E-05	7.110E-05	1.144E-04	1.962E-04	3.445E-04	5.787E-04	8.455E-04	1.119E-03
5.00E 00---6.50E 00	3.781E-04	5.247E-04	7.745E-04	1.227E-03	2.069E-03	3.574E-03	5.924E-03	8.583E-03	1.183E-02
4.00E 00---5.00E 00	1.089E-04	1.592E-04	2.423E-04	4.011E-04	7.152E-04	1.291E-03	2.170E-03	3.115E-03	3.993E-03
3.00E 00---4.00E 00	1.906E-04	2.709E-04	4.078E-04	6.630E-04	1.144E-03	1.983E-03	3.223E-03	4.529E-03	6.319E-03
2.50E 00---3.00E 00	6.271E-05	1.040E-04	1.839E-04	3.456E-04	6.513E-04	1.158E-03	1.845E-03	2.494E-03	3.202E-03
2.00E 00---2.50E 00	7.442E-05	1.240E-04	2.272E-04	4.272E-04	7.729E-04	1.294E-03	1.944E-03	2.520E-03	3.606E-03
1.66E 00---2.00E 00	9.429E-05	1.593E-04	2.969E-04	5.468E-04	9.382E-04	1.468E-03	2.068E-03	2.560E-03	4.184E-03
1.33E 00---1.66E 00	1.262E-04	2.222E-04	4.083E-04	7.177E-04	1.154E-03	1.581E-03	2.214E-03	2.612E-03	4.993E-03
1.00E 00---1.33E 00	2.087E-04	3.681E-04	6.359E-04	1.018E-03	1.487E-03	1.979E-03	2.409E-03	2.691E-03	6.440E-03
8.00E-01---1.00E 00	3.795E-04	6.365E-04	9.907E-04	1.418E-03	1.870E-03	2.288E-03	2.612E-03	2.808E-03	8.543E-03
6.00E-01---8.00E-01	7.389E-04	1.108E-03	1.517E-03	1.923E-03	2.294E-03	2.617E-03	2.883E-03	3.064E-03	1.187E-02
4.00E-01---6.00E-01	2.680E-03	3.202E-03	3.717E-03	4.231E-03	4.711E-03	5.360E-03	5.957E-03	6.415E-03	3.380E-02
3.00E-01---4.00E-01	3.664E-03	3.957E-03	4.301E-03	4.740E-03	5.265E-03	5.813E-03	6.286E-03	6.588E-03	4.396E-02
2.00E-01---3.00E-01	5.918E-03	6.275E-03	6.728E-03	7.255E-03	7.826E-03	8.403E-03	8.916E-03	9.264E-03	7.914E-02
1.00E-01---2.00E-01	1.874E-02	1.990E-02	2.119E-02	2.257E-02	2.396E-02	2.525E-02	2.633E-02	2.700E-02	2.385E-01
5.00E-02---1.00E-01	5.161E-02	5.395E-02	5.644E-02	5.897E-02	6.141E-02	6.359E-02	6.529E-02	6.631E-02	6.496E-01
2.00E-02---5.00E-02	1.402E-02	1.429E-02	1.456E-02	1.483E-02	1.507E-02	1.528E-02	1.543E-02	1.552E-02	1.757E-01

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 900.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	1.475E-07	2.294E-07	4.557E-07	7.522E-07	9.591E-07	9.902E-07	9.875E-07	1.119E-06	1.502E-06
5.00E 00---6.50E 00	5.451E-07	2.107E-07	6.033E-07	1.746E-06	2.229E-06	2.287E-06	2.113E-06	1.997E-06	2.735E-06
4.00E 00---5.00E 00	2.635E-07	2.936E-06	9.732E-06	1.899E-05	2.426E-05	2.411E-05	2.312E-05	2.406E-05	3.363E-05
3.00E 00---4.00E 00	-2.155E-05	-1.699E-05	-3.440E-06	5.406E-06	1.539E-05	1.123E-05	1.292E-06	4.513E-07	6.143E-06
2.50E 00---3.00E 00	-1.537E-05	-1.126E-05	2.308E-07	1.087E-05	1.637E-05	1.562E-05	6.856E-06	7.751E-06	1.533E-05
2.00E 00---2.50E 00	9.916E-06	7.783E-06	-3.529E-06	3.350E-06	6.143E-06	2.786E-06	1.719E-07	1.313E-06	5.706E-06
1.66E 00---2.00E 00	9.182E-06	8.237E-06	3.985E-06	8.982E-08	-1.727E-06	-1.499E-07	2.825E-06	7.983E-06	1.102E-05
1.33E 00---1.66E 00	2.905E-05	2.525E-05	9.162E-06	-4.184E-06	-8.501E-06	-2.007E-06	5.573E-06	1.593E-05	1.821E-05
1.00E 00---1.33E 00	4.084E-05	3.517E-05	1.170E-05	-7.064E-06	-1.181E-05	-1.316E-06	9.127E-06	2.167E-05	1.975E-05
8.00E-01---1.00E 00	2.753E-05	2.345E-05	7.264E-06	-4.221E-06	-4.536E-06	2.482E-06	1.483E-05	2.126E-05	2.573E-05
6.00E-01---8.00E-01	1.898E-05	-1.556E-05	-4.147E-06	6.088E-06	1.814E-05	1.792E-05	1.259E-05	1.681E-05	5.728E-05
4.00E-01---6.00E-01	5.088E-05	-4.003E-05	-6.489E-06	1.855E-05	4.100E-05	3.086E-05	2.745E-05	7.369E-05	2.090E-04
3.00E-01---4.00E-01	3.266E-04	3.246E-04	3.203E-04	3.253E-04	3.466E-04	4.639E-04	6.447E-04	9.117E-04	1.244E-03
2.00E-01---3.00E-01	3.469E-04	3.658E-04	4.511E-04	6.269E-04	8.954E-04	1.237E-03	1.591E-03	1.894E-03	2.099E-03
1.00E-01---2.00E-01	3.428E-03	3.432E-03	3.440E-03	3.438E-03	3.508E-03	3.349E-03	3.284E-03	3.249E-03	3.282E-03
5.00E-02---1.00E-01	8.682E-03	8.702E-03	8.788E-03	8.945E-03	9.171E-03	9.470E-03	9.845E-03	1.031E-02	1.086E-02
2.00E-02---5.00E-02	2.696E-02	2.701E-02	2.721E-02	2.759E-02	2.814E-02	2.887E-02	2.978E-02	3.089E-02	3.219E-02
	8.363E-03	8.370E-03	8.397E-03	8.449E-03	8.522E-03	8.619E-03	8.737E-03	8.878E-03	9.037E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	2.276E-06	3.597E-06	6.096E-06	1.219E-05	2.336E-05	7.803E-05	1.993E-04	4.120E-04	2.491E-04
5.00E 00---6.50E 00	4.651E-06	7.621E-06	1.251E-05	2.419E-05	5.829E-05	1.552E-04	3.916E-04	7.961E-04	4.907E-04
4.00E 00---5.00E 00	5.247E-05	8.215E-05	1.323E-04	2.510E-04	5.833E-04	1.502E-03	3.707E-03	7.439E-03	4.758E-03
3.00E 00---4.00E 00	1.923E-05	3.311E-05	4.644E-05	8.574E-05	2.369E-04	6.781E-04	1.648E-03	3.086E-03	1.984E-03
2.50E 00---3.00E 00	3.025E-05	4.871E-05	7.396E-05	1.501E-04	3.851E-04	9.907E-04	2.234E-03	4.007E-03	2.830E-03
2.00E 00---2.50E 00	1.318E-05	2.229E-05	4.494E-05	1.232E-04	3.424E-04	8.270E-04	1.664E-03	2.657E-03	2.087E-03
1.66E 00---2.00E 00	1.242E-05	2.169E-05	6.436E-05	1.882E-04	4.631E-04	9.685E-04	1.730E-03	2.546E-03	2.364E-03
1.33E 00---1.66E 00	1.262E-05	2.877E-05	1.046E-04	2.883E-04	6.238E-04	1.136E-03	1.792E-03	2.414E-03	2.751E-03
1.00E 00---1.33E 00	1.870E-05	5.642E-05	1.824E-04	4.560E-04	8.257E-04	1.320E-03	1.844E-03	2.266E-03	3.288E-03
8.00E-01---1.00E 00	5.497E-05	1.535E-04	3.631E-04	6.951E-04	1.112E-03	1.535E-03	1.878E-03	2.084E-03	4.233E-03
6.00E-01---8.00E-01	1.661E-04	3.645E-04	6.603E-04	1.019E-03	1.384E-03	1.687E-03	1.884E-03	1.974E-03	5.575E-03
4.00E-01---6.00E-01	4.437E-04	7.510E-04	1.077E-03	1.369E-03	1.600E-03	1.782E-03	1.937E-03	2.057E-03	7.673E-03
3.00E-01---4.00E-01	1.600E-03	1.930E-03	2.206E-03	2.438E-03	2.678E-03	2.985E-03	3.364E-03	3.701E-03	3.889E-02
2.00E-01---3.00E-01	2.215E-03	2.306E-03	2.450E-03	2.696E-03	3.027E-03	3.368E-03	3.634E-03	3.780E-03	2.571E-02
1.00E-01---2.00E-01	3.401E-03	3.601E-03	3.861E-03	4.158E-03	4.477E-03	4.808E-03	5.119E-03	5.341E-03	4.641E-02
5.00E-02---1.00E-01	1.151E-02	1.225E-02	1.308E-02	1.396E-02	1.487E-02	1.572E-02	1.643E-02	1.687E-02	1.467E-01
2.00E-02---5.00E-02	3.367E-02	3.532E-02	3.708E-02	3.890E-02	4.066E-02	4.244E-02	4.349E-02	4.425E-02	4.246E-01
	9.213E-03	9.400E-03	9.591E-03	9.778E-03	9.949E-03	1.010E-02	1.021E-02	1.027E-02	1.155E-01

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 1200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=0.9894	MU=0.9894	MU=0.9846	MU=0.8656	MU=0.7550	MU=0.617	MU=0.4580	MU=0.2816	MU=0.0950
3.037E-07	-2.412E-07	-4.543E-08	8.910E-08	2.367E-07	1.572E-07	1.662E-08	1.662E-08	-8.197E-09	7.796E-08
6.50E 00--3.00E 00	-1.018E-06	-2.712E-07	2.386E-07	7.867E-07	4.302E-07	-6.670E-08	-6.670E-08	-2.866E-07	1.463E-07
8.739E-06	-6.939E-06	2.459E-06	2.459E-06	6.519E-06	3.692E-06	7.651E-08	7.651E-08	-8.822E-07	1.574E-06
1.762E-05	-1.441E-05	4.565E-06	2.232E-06	9.040E-06	3.385E-06	-3.453E-06	-3.453E-06	-5.527E-06	-1.223E-07
3.00E 00--4.00E 00	-1.249E-05	-3.151E-05	2.673E-06	8.490E-06	2.923E-06	-2.919E-06	-2.919E-06	-3.920E-06	1.717E-06
8.019E-06	-6.444E-06	1.689E-06	1.416E-06	3.909E-06	4.109E-07	-2.204E-06	-2.204E-06	-1.616E-06	8.308E-07
5.422E-05	4.775E-06	1.571E-07	-8.301E-07	-2.358E-06	-1.571E-06	3.015E-07	3.015E-07	3.517E-06	4.184E-06
2.00E 00--2.00E 00	1.712E-05	5.470E-06	-4.632E-06	-7.941E-06	-2.997E-06	2.848E-06	2.848E-06	9.845E-06	4.017E-06
2.895E-05	2.453E-05	7.061E-06	-7.452E-06	-1.105E-05	-2.711E-06	3.508E-06	3.508E-06	1.341E-05	2.000E-06
1.33E 00--1.66E 00	1.580E-05	3.418E-06	-5.832E-06	-6.235E-06	6.602E-07	-6.132E-06	-6.132E-06	8.316E-06	-3.254E-07
1.00E 00--1.33E 00	1.381E-05	5.610E-06	1.962E-06	9.955E-06	7.258E-06	-2.359E-06	-2.359E-06	3.959E-06	1.268E-05
8.00E 01--1.00E 00	-1.381E-05	-3.418E-06	9.985E-06	2.340E-05	5.636E-06	-2.675E-06	-2.675E-06	1.835E-05	9.728E-05
6.00E 01--8.00E 01	-3.400E-05	-9.003E-06	1.390E-04	1.536E-04	2.045E-04	3.064E-04	3.064E-04	4.612E-04	6.528E-04
1.534E-04	1.511E-04	1.973E-04	2.962E-04	4.539E-04	6.571E-04	8.643E-04	8.643E-04	1.029E-03	1.119E-03
3.00E 01--6.00E 01	1.518E-04	1.973E-04	1.849E-03	1.820E-03	1.768E-03	1.707E-03	1.707E-03	1.663E-03	1.660E-03
1.844E-03	1.850E-03	1.855E-03	4.610E-03	4.726E-03	4.878E-03	5.065E-03	5.065E-03	5.296E-03	5.568E-03
4.472E-03	4.482E-03	4.527E-03	1.437E-02	1.465E-02	1.502E-02	1.545E-02	1.545E-02	1.606E-02	1.671E-02
1.405E-02	1.407E-02	1.418E-02	4.394E-03	4.432E-03	4.481E-03	4.541E-03	4.541E-03	4.611E-03	4.692E-03
4.351E-03	4.354E-03	4.368E-03	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR	FLUX
4.351E-03	4.354E-03	4.368E-03	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894		
4.351E-03	4.354E-03	4.368E-03	1.690E-06	6.063E-06	2.593E-05	1.017E-04	2.985E-04	1.148E-04	1.148E-04
4.351E-03	4.354E-03	4.368E-03	2.911E-06	1.139E-05	5.134E-05	1.967E-04	5.571E-04	2.196E-04	2.196E-04
4.351E-03	4.354E-03	4.368E-03	3.053E-05	1.091E-04	4.598E-04	1.711E-03	4.776E-03	1.926E-03	1.926E-03
4.351E-03	4.354E-03	4.368E-03	3.440E-06	4.900E-05	2.731E-04	9.272E-04	2.185E-03	9.656E-04	9.656E-04
4.351E-03	4.354E-03	4.368E-03	1.745E-05	1.008E-04	4.034E-04	1.183E-03	2.584E-03	1.274E-03	1.274E-03
4.351E-03	4.354E-03	4.368E-03	3.089E-05	1.417E-04	4.400E-04	1.041E-03	1.883E-03	1.148E-03	1.148E-03
4.351E-03	4.354E-03	4.368E-03	7.064E-05	2.267E-04	5.452E-04	1.078E-03	1.728E-03	1.305E-03	1.305E-03
4.351E-03	4.354E-03	4.368E-03	1.351E-04	3.391E-04	6.620E-04	1.098E-03	1.547E-03	1.519E-03	1.519E-03
4.351E-03	4.354E-03	4.368E-03	2.339E-04	4.761E-04	7.805E-04	1.097E-03	1.354E-03	1.813E-03	1.813E-03
4.351E-03	4.354E-03	4.368E-03	3.980E-04	6.558E-04	8.971E-04	1.061E-03	1.132E-03	2.344E-03	2.344E-03
4.351E-03	4.354E-03	4.368E-03	5.915E-04	7.985E-04	9.600E-04	1.008E-03	1.006E-03	3.040E-03	3.040E-03
4.351E-03	4.354E-03	4.368E-03	7.726E-04	8.723E-04	9.380E-04	9.963E-04	1.051E-03	4.142E-03	4.142E-03
4.351E-03	4.354E-03	4.368E-03	1.207E-03	1.280E-03	1.398E-03	1.573E-03	1.743E-03	9.377E-03	9.377E-03
4.351E-03	4.354E-03	4.368E-03	1.366E-03	1.478E-03	1.630E-03	1.721E-03	1.749E-03	1.299E-02	1.299E-02
4.351E-03	4.354E-03	4.368E-03	2.041E-03	2.171E-03	2.308E-03	2.441E-03	2.540E-03	2.345E-02	2.345E-02
4.351E-03	4.354E-03	4.368E-03	7.060E-03	7.482E-03	7.877E-03	8.193E-03	8.401E-03	7.474E-02	7.474E-02
4.351E-03	4.354E-03	4.368E-03	2.007E-02	2.094E-02	2.172E-02	2.233E-02	2.269E-02	2.199E-01	2.199E-01
4.351E-03	4.354E-03	4.368E-03	5.060E-03	5.145E-03	5.217E-03	5.271E-03	5.303E-03	5.989E-02	5.989E-02

## 0.00335 TO 0.111 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00--8.00E 00	-2.255E-07	-1.850E-07	-5.961E-08	2.902E-08	1.189E-07	4.656E-08	-4.372E-08	-7.887E-08	-1.214E-08
5.00E 00--6.50E 00	-8.528E-07	-7.008E-07	-2.286E-07	1.072E-07	4.386E-07	1.616E-07	-1.870E-07	-3.136E-07	-5.703E-08
4.00E 00--5.00E 00	-5.684E-06	-4.600E-06	-1.457E-06	8.728E-07	3.071E-06	1.075E-06	-1.296E-06	-2.085E-06	-1.904E-07
3.00E 00--4.00E 00	-1.036E-05	-8.509E-06	-2.724E-06	1.580E-06	5.281E-06	1.471E-06	-2.762E-06	-3.988E-06	-4.642E-07
2.50E 00--3.00E 00	-9.303E-06	-7.601E-06	-2.289E-06	1.545E-06	4.761E-06	1.003E-06	-2.674E-06	-3.283E-06	3.161E-07
2.00E 00--2.50E 00	-4.740E-06	-3.814E-06	-9.734E-07	9.684E-07	2.303E-06	-3.019E-08	-1.676E-06	-1.256E-06	3.779E-07
1.66E 00--2.00E 00	3.044E-06	2.671E-06	1.090E-06	-5.557E-07	-1.487E-06	-1.060E-06	8.254E-08	2.010E-06	2.212E-06
1.33E 00--1.66E 00	1.167E-05	9.932E-06	3.085E-06	-2.979E-06	-4.914E-06	-1.809E-06	1.949E-06	6.074E-06	1.595E-06
1.00E 00--1.33E 00	1.702E-05	1.433E-05	3.974E-06	-4.798E-06	-6.851E-06	-1.559E-06	3.745E-06	8.187E-06	-4.212E-07
8.00E 00--1.00E 01	1.111E-05	9.120E-06	1.781E-06	3.798E-06	-3.943E-06	3.071E-07	3.848E-06	3.181E-06	-2.553E-06
6.50E 00--8.00E 00	-9.913E-06	-8.477E-06	-3.529E-06	1.198E-06	5.788E-06	3.063E-06	-2.410E-06	-5.082E-06	2.964E-06
5.00E 00--6.50E 00	-2.498E-05	-2.035E-05	-5.521E-06	6.105E-06	1.311E-05	1.315E-06	-5.371E-06	5.073E-06	4.834E-05
4.00E 00--5.00E 00	7.431E-05	7.274E-05	6.755E-05	6.336E-05	6.944E-05	9.540E-05	1.492E-04	2.310E-04	3.308E-04
3.00E 00--4.00E 00	6.520E-05	6.099E-05	9.316E-05	1.466E-04	2.281E-04	3.354E-04	4.429E-04	5.238E-04	5.612E-04
2.00E 00--3.00E 00	9.402E-04	9.411E-04	9.427E-04	9.377E-04	9.186E-04	8.854E-04	8.468E-04	8.174E-04	8.103E-04
1.00E 00--2.00E 00	2.197E-03	2.202E-03	2.225E-03	2.265E-03	2.321E-03	2.395E-03	2.484E-03	2.592E-03	2.719E-03
5.00E 00--1.00E 01	6.876E-03	6.888E-03	6.938E-03	7.031E-03	7.164E-03	7.341E-03	7.560E-03	7.825E-03	8.131E-03
2.00E 00--5.00E 00	2.117E-03	2.119E-03	2.126E-03	2.138E-03	2.155E-03	2.178E-03	2.206E-03	2.239E-03	2.276E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	5.567E-05
6.50E 00--8.00E 00	6.620E-08	1.749E-07	1.482E-07	7.726E-08	9.016E-07	7.753E-07	4.600E-05	1.869E-04	5.567E-05
5.00E 00--6.50E 00	2.313E-07	6.001E-07	3.340E-07	-2.213E-07	1.332E-06	1.560E-05	8.861E-05	3.366E-04	1.033E-04
4.00E 00--5.00E 00	1.920E-06	4.569E-06	2.897E-06	-5.629E-07	1.320E-05	1.286E-04	7.045E-04	2.643E-03	8.224E-04
3.00E 00--4.00E 00	3.092E-06	6.801E-06	-5.022E-06	-7.693E-06	6.295E-05	1.061E-04	4.658E-04	1.304E-03	4.726E-04
2.50E 00--3.00E 00	3.360E-06	5.604E-06	-1.713E-06	-2.213E-06	2.600E-05	1.667E-04	5.761E-04	1.429E-03	5.929E-04
2.00E 00--2.50E 00	2.766E-06	1.056E-06	-1.705E-06	6.835E-06	5.875E-05	2.174E-04	5.619E-04	1.095E-03	5.903E-04
1.66E 00--2.00E 00	-1.272E-06	-3.886E-06	8.833E-07	2.861E-05	1.094E-04	2.814E-04	5.805E-04	9.713E-04	6.721E-04
1.33E 00--1.66E 00	-5.848E-06	-5.869E-06	9.909E-06	6.552E-05	1.757E-04	3.495E-04	5.834E-04	8.322E-04	7.816E-04
1.00E 00--1.33E 00	-8.549E-06	3.896E-07	3.184E-05	1.209E-04	2.549E-04	4.136E-04	5.691E-04	6.894E-04	9.320E-04
8.00E 00--1.00E 01	7.392E-07	2.537E-05	9.723E-05	2.131E-04	3.510E-04	4.681E-04	5.295E-04	5.372E-04	1.189E-03
6.50E 00--8.00E 00	3.527E-05	1.015E-04	1.994E-04	3.366E-04	4.160E-04	4.776E-04	4.858E-04	4.619E-04	1.546E-03
5.00E 00--6.50E 00	1.298E-04	2.315E-04	3.276E-04	3.967E-04	4.341E-04	4.537E-04	4.736E-04	4.966E-04	2.090E-03
4.00E 00--5.00E 00	4.299E-04	5.081E-04	5.545E-04	5.758E-04	5.958E-04	6.412E-04	7.185E-04	7.960E-04	4.530E-03
3.00E 00--4.00E 00	5.623E-04	5.530E-04	5.713E-04	6.252E-04	7.010E-04	7.641E-04	7.893E-04	7.846E-04	6.318E-03
2.00E 00--3.00E 00	8.299E-04	8.702E-04	9.202E-04	9.712E-04	1.022E-03	1.076E-03	1.131E-03	1.173E-03	1.141E-02
1.00E 00--2.00E 00	2.865E-03	3.029E-03	3.207E-03	3.393E-03	3.577E-03	3.746E-03	3.882E-03	3.965E-03	3.624E-02
5.00E 00--1.00E 01	8.477E-03	8.855E-03	9.255E-03	9.660E-03	1.005E-02	1.039E-02	1.066E-02	1.081E-02	1.066E-01
2.00E 00--5.00E 00	2.316E-03	2.359E-03	2.402E-03	2.444E-03	2.482E-03	2.514E-03	2.538E-03	2.552E-03	2.902E-02

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	-1.327E-07	-1.094E-07	-3.608E-08	-1.774E-08	-6.839E-08	-2.243E-08	-3.390E-08	-5.495E-08	-1.320E-08
5.00E 00---6.50E 00	-4.896E-07	-4.034E-07	-1.318E-07	-6.893E-08	-2.523E-07	-7.628E-08	-1.311E-07	-2.038E-07	-4.247E-08
4.00E 00---5.00E 00	-3.015E-06	-2.483E-06	-7.948E-07	-4.770E-07	-1.585E-06	-4.352E-07	-8.577E-07	-1.274E-06	-2.048E-07
3.00E 00---4.00E 00	-5.434E-06	-4.468E-06	-1.408E-06	-9.066E-07	-2.844E-06	-6.497E-07	-1.643E-06	-2.522E-06	-4.026E-07
2.50E 00---3.00E 00	-4.914E-06	-4.018E-06	-1.191E-06	-9.202E-07	-2.530E-06	-3.890E-07	-1.608E-06	-1.878E-06	-2.127E-07
2.00E 00---2.50E 00	-2.467E-06	-1.983E-06	-4.822E-07	-5.758E-07	-1.210E-06	-5.820E-07	-9.752E-07	-6.894E-07	-2.853E-07
1.66E 00---2.00E 00	-1.634E-06	-1.300E-06	-5.815E-07	-3.146E-07	-8.212E-07	-5.820E-07	-7.206E-08	-1.400E-06	-1.186E-06
1.33E 00---1.66E 00	-6.216E-06	-5.271E-06	-1.614E-06	-1.660E-06	-2.671E-06	-9.231E-07	-2.221E-06	-3.405E-06	-6.653E-07
1.00E 00---1.33E 00	-9.035E-06	-7.576E-06	-2.058E-06	-2.659E-06	-3.698E-06	-7.327E-07	-2.273E-06	-4.508E-06	-6.566E-07
8.00E 01---1.00E 00	-5.774E-06	-4.713E-06	-8.719E-07	-2.065E-06	-2.074E-06	-6.908E-08	-2.448E-06	-1.414E-06	-2.011E-06
6.50E 01---8.00E 01	-5.412E-06	-4.624E-06	-1.897E-06	-7.649E-07	-3.163E-06	-1.524E-06	-1.596E-06	-3.268E-06	-6.688E-07
5.00E 01---6.50E 01	-3.13E-05	-1.070E-05	-2.853E-06	-3.436E-06	-6.779E-06	-2.792E-07	-3.519E-06	-1.889E-06	-2.468E-05
4.00E 01---5.00E 01	-6.02E-05	-3.515E-05	-3.220E-05	-2.970E-05	-3.256E-05	-4.571E-05	-7.307E-05	-1.433E-04	-1.638E-04
3.00E 01---4.00E 01	-23E-05	-3.363E-05	-4.533E-05	-7.128E-05	-1.133E-04	-1.670E-04	-2.198E-04	-2.579E-04	-2.732E-04
2.00E 01---3.00E 01	-4.644E-04	-4.648E-04	-4.651E-04	-4.616E-04	-4.505E-04	-4.321E-04	-4.108E-04	-3.945E-04	-3.897E-04
1.00E 01---2.00E 01	-1.060E-03	-1.063E-03	-1.073E-03	-1.093E-03	-1.120E-03	-1.154E-03	-1.196E-03	-1.246E-03	-1.305E-03
5.00E 02---1.00E 01	-3.299E-03	-3.305E-03	-3.328E-03	-3.371E-03	-3.434E-03	-3.516E-03	-3.617E-03	-3.739E-03	-3.879E-03
2.00E 02---5.00E 02	-1.010E-03	-1.011E-03	-1.014E-03	-1.020E-03	-1.028E-03	-1.038E-03	-1.051E-03	-1.066E-03	-1.083E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	2.766E-05
6.50E 00---8.00E 00	3.513E-08	9.721E-08	2.743E-08	-1.074E-07	3.185E-08	2.291E-06	1.999E-05	1.080E-04	2.766E-05
5.00E 00---6.50E 00	1.375E-07	3.546E-07	3.165E-08	-5.150E-07	-1.115E-07	4.919E-06	3.884E-05	1.878E-04	4.991E-05
4.00E 00---5.00E 00	9.765E-07	2.444E-06	1.568E-07	-3.246E-06	-1.427E-07	3.653E-05	2.816E-04	1.300E-03	3.618E-04
3.00E 00---4.00E 00	1.881E-06	3.927E-06	-1.029E-06	-7.073E-06	-3.352E-07	4.240E-05	2.259E-04	7.076E-04	2.307E-04
2.50E 00---3.00E 00	1.978E-06	3.075E-06	-2.291E-06	-4.543E-06	8.096E-06	7.398E-05	2.749E-04	7.287E-04	2.797E-04
2.00E 00---2.50E 00	1.623E-06	2.278E-07	-2.305E-06	1.282E-05	2.627E-05	1.063E-04	2.844E-04	5.740E-04	2.934E-04
1.66E 00---2.00E 00	-3.080E-07	-2.825E-06	1.001E-08	1.191E-05	5.366E-05	1.412E-04	2.928E-04	4.937E-04	3.343E-04
1.33E 00---1.66E 00	-3.771E-06	-4.400E-06	3.862E-06	3.277E-05	8.937E-05	1.765E-04	2.906E-04	4.107E-04	3.882E-04
1.00E 00---1.33E 00	-5.645E-06	-1.450E-06	1.585E-05	6.225E-05	1.306E-04	2.081E-04	2.778E-04	3.269E-04	4.615E-04
8.00E 01---1.00E 00	-6.255E-07	1.191E-05	4.969E-05	1.097E-04	1.781E-04	2.313E-04	2.510E-04	2.428E-04	5.864E-04
6.50E 01---8.00E 01	1.779E-05	5.214E-05	1.029E-04	1.582E-04	2.059E-04	2.301E-04	2.258E-04	2.068E-04	7.589E-04
5.00E 01---6.50E 01	6.695E-05	1.181E-04	1.643E-04	1.945E-04	2.079E-04	2.130E-04	2.202E-04	2.303E-04	1.021E-03
4.00E 01---5.00E 01	2.115E-04	2.471E-04	2.655E-04	2.711E-04	2.765E-04	2.953E-04	3.299E-04	3.647E-04	2.165E-03
3.00E 01---4.00E 01	2.701E-04	2.636E-04	2.700E-04	2.953E-04	3.302E-04	3.564E-04	3.625E-04	3.551E-04	3.029E-03
2.00E 01---3.00E 01	3.979E-04	4.159E-04	4.375E-04	4.586E-04	4.791E-04	5.013E-04	5.245E-04	5.425E-04	5.469E-03
1.00E 01---2.00E 01	1.372E-03	1.446E-03	1.526E-03	1.608E-03	1.689E-03	1.761E-03	1.819E-03	1.854E-03	1.730E-02
5.00E 02---1.00E 01	4.037E-03	4.208E-03	4.387E-03	4.567E-03	4.737E-03	4.886E-03	5.000E-03	5.069E-03	5.067E-02
2.00E 02---5.00E 02	1.101E-03	1.121E-03	1.140E-03	1.158E-03	1.175E-03	1.190E-03	1.200E-03	1.206E-03	1.379E-02

## 3. CO335 TO 0.111 MEV NEUTRON SOURCE

4. PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 02	2.968E-11	3.214E-11	3.188E-11	2.797E-11	2.267E-11
-9.89401E-01	2.977E-11	3.224E-11	3.198E-11	2.805E-11	2.274E-11
-9.44575E-01	3.014E-11	3.264E-11	3.237E-11	2.841E-11	2.302E-11
-8.65631E-01	3.086E-11	3.342E-11	3.314E-11	2.908E-11	2.357E-11
-7.55044E-01	3.197E-11	3.460E-11	3.428E-11	3.008E-11	2.436E-11
-6.17876E-01	3.353E-11	3.624E-11	3.585E-11	3.144E-11	2.545E-11
-4.58017E-01	3.505E-11	3.840E-11	3.789E-11	3.320E-11	2.685E-11
-2.81605E-01	3.829E-11	4.117E-11	4.050E-11	3.547E-11	2.861E-11
-9.50125E-02	4.174E-11	4.469E-11	4.381E-11	3.817E-11	3.074E-11
9.50125E-02	6.955E-11	4.646E-11	3.166E-11	3.798E-11	2.911E-11
2.81605E-01	5.394E-11	6.213E-11	6.266E-11	4.607E-11	3.754E-11
4.58017E-01	6.196E-11	5.599E-11	7.816E-11	5.475E-11	4.183E-11
6.17876E-01	6.840E-11	7.516E-11	7.546E-11	5.171E-11	4.25CE-11
7.55044E-01	8.991E-11	8.487E-11	7.201E-11	6.857E-11	5.338E-11
8.65631E-01	8.575E-11	1.538E-10	9.259E-11	6.982E-11	5.364E-11
9.44575E-01	1.670E-10	1.314E-10	1.100E-10	8.728E-11	6.559E-11
9.89401E-01	3.310E-10	2.600E-10	1.571E-10	1.042E-10	7.175E-11
TOTAL	7.416E-10	7.154E-10	6.548E-10	5.600E-10	4.418E-10

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	4.997E-12	2.460E-12	2.525E-13	2.290E-14	1.945E-15
-9.89401E-01	5.012E-12	2.467E-12	2.535E-13	2.297E-14	1.951E-15
-9.44575E-01	5.074E-12	2.498E-12	2.564E-13	2.325E-14	1.975E-15
-8.65631E-01	5.191E-12	2.555E-12	2.622E-13	2.377E-14	2.019E-15
-7.55044E-01	5.362E-12	2.639E-12	2.706E-13	2.453E-14	2.083E-15
-6.17876E-01	5.594E-12	2.752E-12	2.820E-13	2.556E-14	2.169E-15
-4.58017E-01	5.888E-12	2.895E-12	2.965E-13	2.685E-14	2.278E-15
-2.81605E-01	6.255E-12	3.073E-12	3.143E-13	2.844E-14	2.412E-15
-9.50125E-02	6.700E-12	3.298E-12	3.356E-13	3.034E-14	2.572E-15
9.50125E-02	7.329E-12	3.526E-12	3.607E-13	3.256E-14	2.757E-15
2.81605E-01	7.793E-12	3.843E-12	3.893E-13	3.509E-14	2.968E-15
4.58017E-01	8.577E-12	4.166E-12	4.213E-13	3.788E-14	3.199E-15
6.17876E-01	9.305E-12	4.541E-12	4.557E-13	4.085E-14	3.444E-15
7.55044E-01	1.018E-11	4.921E-12	4.909E-13	4.384E-14	3.688E-15
8.65631E-01	1.100E-11	5.304E-12	5.241E-13	4.663E-14	3.914E-15
9.44575E-01	1.178E-11	5.631E-12	5.517E-13	4.889E-14	4.095E-15
9.89401E-01	1.231E-11	5.855E-12	5.691E-13	5.029E-14	4.206E-15
TOTAL	9.360E-11	4.562E-11	4.615E-12	4.153E-13	3.510E-14

3.420E-10

1.837E-10

1.800.0

1.586E-16

1.590E-16

1.610E-16

1.645E-16

1.698E-16

1.768E-16

1.856E-16

2.093E-16

2.243E-16

2.412E-16

2.598E-16

2.793E-16

2.987E-16

3.165E-16

3.307E-16

3.394E-16

2.852E-15



4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON) 3.00335 TO 0.111 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.576E-10	1.901E-10	2.228E-10	2.213E-10	1.983E-10
-9.89401E-01	1.580E-10	1.905E-10	2.234E-10	2.219E-10	1.987E-10
-9.44575E-01	1.598E-10	1.924E-10	2.255E-10	2.240E-10	2.007E-10
-8.65631E-01	1.626E-10	1.960E-10	2.277E-10	2.281E-10	2.044E-10
-7.55044E-01	1.672E-10	2.013E-10	2.337E-10	2.341E-10	2.097E-10
-6.17876E-01	1.735E-10	2.086E-10	2.439E-10	2.421E-10	2.168E-10
-4.58017E-01	1.818E-10	2.181E-10	2.544E-10	2.524E-10	2.259E-10
-2.81605E-01	1.924E-10	2.301E-10	2.676E-10	2.650E-10	2.370E-10
-9.50125E-02	2.057E-10	2.450E-10	2.838E-10	2.802E-10	2.501E-10
9.50125E-02	2.945E-10	2.423E-10	2.641E-10	2.430E-10	2.330E-10
2.81605E-01	2.511E-10	3.069E-10	3.629E-10	3.259E-10	2.932E-10
4.58017E-01	2.789E-10	2.940E-10	3.199E-10	3.537E-10	3.055E-10
6.17876E-01	3.016E-10	3.623E-10	4.146E-10	3.604E-10	3.246E-10
7.55044E-01	3.725E-10	3.973E-10	4.098E-10	4.179E-10	3.621E-10
8.65631E-01	3.668E-10	4.659E-10	4.853E-10	4.345E-10	3.760E-10
9.44575E-01	6.212E-10	5.547E-10	5.456E-10	4.947E-10	4.176E-10
9.89401E-01	1.126E-09	9.538E-10	6.970E-10	5.536E-10	4.431E-10
TOTAL	3.304E-09	3.629E-09	3.997E-09	3.875E-09	3.415E-09
					2.865E-09
					1.740E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	5.629E-11	2.881E-11	3.082E-12	2.811E-13	2.387E-14
-9.89401E-01	5.642E-11	2.888E-11	3.099E-12	2.818E-13	2.392E-14
-9.44575E-01	5.698E-11	2.917E-11	3.120E-12	2.845E-13	2.416E-14
-8.65631E-01	5.803E-11	2.970E-11	3.177E-12	2.897E-13	2.459E-14
-7.55044E-01	5.954E-11	3.047E-11	3.259E-12	2.972E-13	2.522E-14
-6.17876E-01	6.157E-11	3.151E-11	3.368E-12	3.076E-13	2.605E-14
-4.58017E-01	6.410E-11	3.280E-11	3.505E-12	3.193E-13	2.709E-14
-2.81605E-01	6.719E-11	3.437E-11	3.670E-12	3.342E-13	2.834E-14
-9.50125E-02	7.085E-11	3.622E-11	3.864E-12	3.516E-13	2.979E-14
9.50125E-02	7.582E-11	3.821E-11	4.086E-12	3.713E-13	3.144E-14
2.81605E-01	7.944E-11	4.080E-11	4.331E-12	3.932E-13	3.326E-14
4.58017E-01	8.521E-11	4.332E-11	4.577E-12	4.166E-13	3.520E-14
6.17876E-01	9.038E-11	4.613E-11	4.872E-12	4.407E-13	3.719E-14
7.55044E-01	9.629E-11	4.883E-11	5.143E-12	4.641E-13	3.911E-14
8.65631E-01	1.014E-10	5.144E-11	5.399E-12	4.851E-13	4.082E-14
9.44575E-01	1.061E-10	5.353E-11	5.585E-12	5.017E-13	4.217E-14
9.89401E-01	1.090E-10	5.490E-11	5.705E-12	5.117E-13	4.297E-14
TOTAL	9.537E-10	4.86CE-10	5.161E-11	4.682E-12	3.96CE-13
					3.217E-14

## 0.CC335 TO 0.111 MEV NEUTRON SOURCE

4 P1 R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-00	5.294E-09	5.755E-09	5.745E-09	5.065E-09	4.123E-09	3.214E-09	1.784E-09
-9.89401E-01	5.309E-09	5.772E-09	5.762E-09	5.080E-09	4.136E-09	3.223E-09	1.789E-09
-9.44575E-01	5.374E-09	5.843E-09	5.833E-09	5.143E-09	4.187E-09	3.263E-09	1.811E-09
-8.65631E-01	5.503E-09	5.982E-09	5.970E-09	5.264E-09	4.284E-09	3.339E-09	1.852E-09
-7.55044E-01	5.699E-09	6.191E-09	6.173E-09	5.442E-09	4.428E-09	3.450E-09	1.913E-09
-6.17876E-01	5.973E-09	6.481E-09	6.452E-09	5.686E-09	4.623E-09	3.601E-09	1.995E-09
-4.58017E-01	6.339E-09	6.864E-09	6.816E-09	6.001E-09	4.874E-09	3.795E-09	2.100E-09
-2.81605E-01	6.815E-09	7.355E-09	7.280E-09	6.399E-09	5.188E-09	4.039E-09	2.231E-09
-9.50125E-02	7.422E-09	7.978E-09	7.869E-09	6.887E-09	5.571E-09	4.339E-09	2.389E-09
2.81605E-01	1.225E-08	7.265E-09	5.791E-09	6.841E-09	5.265E-09	5.020E-09	2.855E-09
4.58017E-01	9.572E-09	1.104E-08	1.190E-08	8.309E-09	6.800E-09	4.926E-09	2.855E-09
6.17876E-01	1.098E-08	9.979E-09	8.658E-09	9.815E-09	7.532E-09	5.760E-09	3.031E-09
7.55044E-01	1.211E-08	1.335E-08	1.346E-08	9.319E-09	7.687E-09	6.092E-09	3.384E-09
8.65631E-01	1.588E-08	1.506E-08	1.286E-08	1.227E-08	9.585E-09	6.955E-09	3.658E-09
9.44575E-01	1.517E-08	1.865E-08	1.649E-08	1.251E-08	9.658E-09	7.540E-09	4.026E-09
9.89401E-01	2.939E-08	2.322E-08	1.953E-08	1.557E-08	1.175E-08	8.425E-09	4.321E-09
	5.804E-08	4.570E-08	2.778E-08	1.854E-08	1.284E-08	9.190E-09	4.594E-09
TOTAL	1.313E-07	1.273E-07	1.173E-07	1.008E-07	7.985E-08	6.204E-08	3.351E-08

## RANGE (METERS)

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E-00	9.215E-10	4.548E-10	4.683E-11	4.249E-12	3.609E-13	2.942E-14
-9.89401E-01	9.241E-10	4.562E-10	4.696E-11	4.261E-12	3.619E-13	2.950E-14
-9.44575E-01	9.355E-10	4.617E-10	4.754E-11	4.313E-12	3.663E-13	2.985E-14
-8.65631E-01	9.568E-10	4.722E-10	4.859E-11	4.408E-12	3.743E-13	3.051E-14
-7.55044E-01	9.878E-10	4.874E-10	5.014E-11	4.547E-12	3.861E-13	3.146E-14
-6.17876E-01	1.030E-09	5.079E-10	5.222E-11	4.734E-12	4.018E-13	3.274E-14
-4.58017E-01	1.083E-09	5.340E-10	5.485E-11	4.970E-12	4.217E-13	3.435E-14
-2.81605E-01	1.150E-09	5.663E-10	5.809E-11	5.260E-12	4.461E-13	3.633E-14
-9.50125E-02	1.230E-09	6.052E-10	6.197E-11	5.606E-12	4.751E-13	3.867E-14
9.50125E-02	1.345E-09	6.482E-10	6.653E-11	6.009E-12	5.086E-13	4.139E-14
2.81605E-01	1.427E-09	7.058E-10	7.172E-11	6.467E-12	5.470E-13	4.446E-14
4.58017E-01	1.569E-09	7.640E-10	7.751E-11	6.973E-12	5.895E-13	4.782E-14
6.17876E-01	1.699E-09	8.315E-10	8.373E-11	7.510E-12	6.332E-13	5.135E-14
7.55044E-01	1.857E-09	8.998E-10	9.006E-11	8.049E-12	6.772E-13	5.485E-14
8.65631E-01	2.003E-09	9.685E-10	9.604E-11	8.551E-12	7.199E-13	5.806E-14
9.44575E-01	2.143E-09	1.027E-09	1.010E-10	8.959E-12	7.505E-13	6.062E-14
9.89401E-01	2.237E-09	1.067E-09	1.041E-10	9.211E-12	7.705E-13	6.218E-14
TOTAL	1.715E-08	8.380E-09	8.505E-10	7.659E-11	6.473E-12	5.260E-13

4. PL R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

		0.0C335 TO 0.111 MEV NEUTRON SOURCE									
		RANGE (METERS)									
		2CC.C									
COSINE		75.0	100.0	150.0	200.0	250.0	300.0	400.0			
-1.0C000E 00		2.840E-11	3.471E-11	4.165E-11	4.215E-11	3.833E-11	3.255E-11	2.037E-11			
-9.89401E-01		2.846E-11	3.479E-11	4.174E-11	4.224E-11	3.842E-11	3.262E-11	2.042E-11			
-9.44575E-01		2.873E-11	3.511E-11	4.213E-11	4.264E-11	3.878E-11	3.294E-11	2.062E-11			
-8.65631E-01		2.926E-11	3.575E-11	4.288E-11	4.339E-11	3.947E-11	3.352E-11	2.099E-11			
-7.55044E-01		3.005E-11	3.669E-11	4.397E-11	4.449E-11	4.047E-11	3.437E-11	2.152E-11			
-6.17876E-01		3.115E-11	3.797E-11	4.544E-11	4.596E-11	4.180E-11	3.551E-11	2.223E-11			
-4.58017E-01		3.260E-11	3.964E-11	4.732E-11	4.784E-11	4.348E-11	3.694E-11	2.312E-11			
-2.81605E-01		3.444E-11	4.173E-11	4.676E-11	5.014E-11	4.554E-11	3.869E-11	2.421E-11			
-9.50125E-02		3.676E-11	4.434E-11	5.256E-11	5.289E-11	4.797E-11	4.078E-11	2.549E-11			
9.50125E-02		5.200E-11	4.395E-11	4.932E-11	5.292E-11	4.693E-11	4.494E-11	2.642E-11			
2.81605E-01		4.459E-11	5.507E-11	6.537E-11	6.110E-11	5.578E-11	4.494E-11	2.896E-11			
4.58017E-01		4.939E-11	5.291E-11	5.913E-11	6.604E-11	5.810E-11	4.975E-11	3.035E-11			
6.17876E-01		5.330E-11	6.469E-11	7.549E-11	6.739E-11	6.161E-11	5.188E-11	3.267E-11			
7.55044E-01		6.549E-11	7.073E-11	7.478E-11	7.742E-11	6.824E-11	5.651E-11	3.447E-11			
8.65631E-01		6.454E-11	8.254E-11	8.783E-11	8.043E-11	7.082E-11	5.947E-11	3.664E-11			
9.44575E-01		1.082E-10	9.780E-11	9.825E-11	9.087E-11	7.810E-11	6.357E-11	3.826E-11			
9.89401E-01		1.947E-10	1.662E-10	1.242E-10	1.010E-10	8.256E-11	6.652E-11	3.960E-11			
TOTAL		5.854E-10	6.521E-10	7.356E-10	7.273E-10	6.518E-10	5.537E-10	3.428E-10			

		RANGE (METERS)									
		900.0									
		1200.0									
COSINE		500.0	600.0	900.0	1200.0	1500.0	1800.0				
-1.0C000E 00		1.131E-11	5.822E-12	6.265E-13	5.720E-14	4.856E-15	3.954E-16				
-9.89401E-01		1.134E-11	5.835E-12	6.279E-13	5.733E-14	4.867E-15	3.963E-16				
-9.44575E-01		1.145E-11	5.892E-12	6.341E-13	5.789E-14	4.915E-15	4.002E-16				
-8.65631E-01		1.165E-11	5.998E-12	6.454E-13	5.892E-14	5.001E-15	4.072E-16				
-7.55044E-01		1.195E-11	6.151E-12	6.618E-13	6.041E-14	5.127E-15	4.174E-16				
-6.17876E-01		1.235E-11	6.356E-12	6.837E-13	6.238E-14	5.293E-15	4.308E-16				
-4.58017E-01		1.284E-11	6.611E-12	7.108E-13	6.483E-14	5.499E-15	4.475E-16				
-2.81605E-01		1.345E-11	6.921E-12	7.338E-13	6.779E-14	5.748E-15	4.676E-16				
-9.50125E-02		1.416E-11	7.284E-12	7.822E-13	7.124E-14	6.037E-15	4.909E-16				
9.50125E-02		1.511E-11	7.677E-12	8.261E-13	7.516E-14	6.365E-15	5.173E-16				
2.81605E-01		1.583E-11	8.179E-12	8.746E-13	7.948E-14	6.724E-15	5.462E-16				
4.58017E-01		1.693E-11	8.671E-12	9.269E-13	8.410E-14	7.108E-15	5.769E-16				
6.17876E-01		1.793E-11	9.213E-12	9.809E-13	8.883E-14	7.498E-15	6.081E-16				
7.55044E-01		1.905E-11	9.735E-12	1.034E-12	9.341E-14	7.874E-15	6.379E-16				
8.65631E-01		2.003E-11	1.023E-11	1.081E-12	9.752E-14	8.209E-15	6.645E-16				
9.44575E-01		2.090E-11	1.063E-11	1.120E-12	1.007E-13	8.470E-15	6.851E-16				
9.89401E-01		2.145E-11	1.089E-11	1.143E-12	1.027E-13	8.627E-15	6.975E-16				
TOTAL		1.900E-10	9.747E-11	1.042E-11	9.470E-13	8.011E-14	6.507E-15				

## 0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.0000E 00	4.685E-10	5.090E-10	5.073E-10	4.466E-10	3.630E-10	2.825E-10	1.564E-10
-9.89401E-01	4.699E-10	5.105E-10	5.088E-10	4.479E-10	3.641E-10	2.834E-10	1.569E-10
-9.44575E-01	4.756E-10	5.168E-10	5.150E-10	4.535E-10	3.686E-10	2.869E-10	1.588E-10
-8.65631E-01	4.871E-10	5.291E-10	5.272E-10	4.642E-10	3.772E-10	2.936E-10	1.625E-10
-7.55044E-01	5.044E-10	5.476E-10	5.452E-10	4.800E-10	3.899E-10	3.034E-10	1.678E-10
-6.17876E-01	5.288E-10	5.733E-10	5.699E-10	5.015E-10	4.071E-10	3.167E-10	1.751E-10
-4.58017E-01	5.612E-10	6.072E-10	6.021E-10	5.294E-10	4.293E-10	3.339E-10	1.843E-10
-2.81605E-01	6.034E-10	6.507E-10	6.432E-10	5.646E-10	4.571E-10	3.554E-10	1.958E-10
-9.50125E-02	6.572E-10	7.059E-10	6.953E-10	6.078E-10	4.909E-10	3.819E-10	2.098E-10
-9.50125E-02	1.089E-09	6.425E-10	5.106E-10	6.038E-10	4.639E-10	4.421E-10	2.182E-10
2.81605E-01	8.478E-10	9.774E-10	1.044E-09	7.335E-10	5.996E-10	4.338E-10	2.509E-10
4.58017E-01	9.727E-10	8.832E-10	7.659E-10	8.272E-10	6.646E-10	5.075E-10	2.664E-10
6.17876E-01	1.073E-09	1.182E-09	1.191E-09	8.229E-10	6.780E-10	5.369E-10	2.976E-10
7.55044E-01	1.407E-09	1.334E-09	1.138E-09	1.084E-09	8.464E-10	6.132E-10	3.218E-10
8.65631E-01	1.344E-09	1.652E-09	1.459E-09	1.166E-09	8.526E-10	6.651E-10	3.544E-10
9.44575E-01	2.606E-09	2.058E-09	1.730E-09	1.377E-09	1.038E-09	7.434E-10	3.805E-10
9.89401E-01	5.149E-09	4.053E-09	2.462E-09	1.641E-09	1.135E-09	8.113E-10	4.047E-10
TOTAL	1.164E-08	1.127E-08	1.037E-08	8.897E-09	7.041E-09	5.463E-09	2.945E-09

## RANGE (METERS)

1800.0

1500.0

1200.0

900.0

600.0

500.0

COSINE

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.0000E 00	8.066E-11	3.976E-11	4.088E-12	3.708E-13	3.149E-14	2.567E-15
-9.89401E-01	8.090E-11	3.988E-11	4.099E-12	3.719E-13	3.158E-14	2.574E-15
-9.44575E-01	8.189E-11	4.037E-11	4.149E-12	3.744E-13	3.194E-14	2.605E-15
-8.65631E-01	8.376E-11	4.129E-11	4.242E-12	3.847E-13	3.267E-14	2.663E-15
-7.55044E-01	8.649E-11	4.262E-11	4.378E-12	3.969E-13	3.370E-14	2.746E-15
-6.17876E-01	9.019E-11	4.442E-11	4.560E-12	4.133E-13	3.508E-14	2.858E-15
-4.58017E-01	9.490E-11	4.672E-11	4.791E-12	4.340E-13	3.683E-14	3.000E-15
-2.81605E-01	1.007E-10	4.956E-11	5.076E-12	4.595E-13	3.897E-14	3.174E-15
-9.50125E-02	1.078E-10	5.298E-11	5.417E-12	4.899E-13	4.152E-14	3.379E-15
9.50125E-02	1.179E-10	5.676E-11	5.817E-12	5.253E-13	4.448E-14	3.618E-15
2.81605E-01	1.252E-10	6.184E-11	6.274E-12	5.655E-13	4.783E-14	3.888E-15
4.58017E-01	1.377E-10	6.695E-11	6.783E-12	6.100E-13	5.152E-14	4.184E-15
6.17876E-01	1.492E-10	7.291E-11	7.350E-12	6.573E-13	5.541E-14	4.494E-15
7.55044E-01	1.631E-10	7.893E-11	7.888E-12	7.048E-13	5.929E-14	4.802E-15
8.65631E-01	1.760E-10	8.500E-11	8.415E-12	7.490E-13	6.287E-14	5.085E-15
9.44575E-01	1.884E-10	9.016E-11	8.852E-12	7.849E-13	6.574E-14	5.310E-15
9.89401E-01	1.967E-10	9.369E-11	9.127E-12	8.071E-13	6.751E-14	5.448E-15
TOTAL	1.504E-09	7.341E-10	7.439E-11	6.696E-12	5.660E-13	4.599E-14

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	6.296E-10	8.174E-10	1.114E-09	1.268E-09	1.279E-09
-9.89401E-01	6.308E-10	8.190E-10	1.116E-09	1.271E-09	1.281E-09
-9.44575E-01	6.361E-10	8.254E-10	1.124E-09	1.280E-09	1.291E-09
-8.65631E-01	6.464E-10	8.379E-10	1.140E-09	1.298E-09	1.309E-09
-7.55044E-01	6.619E-10	8.564E-10	1.163E-09	1.324E-09	1.335E-09
-6.17876E-01	6.833E-10	8.815E-10	1.194E-09	1.358E-09	1.370E-09
-4.58017E-01	7.115E-10	9.140E-10	1.233E-09	1.401E-09	1.413E-09
-2.81605E-01	7.475E-10	9.549E-10	1.282E-09	1.454E-09	1.466E-09
-9.50125E-02	7.929E-10	1.006E-09	1.340E-09	1.516E-09	1.527E-09
9.50125E-02	1.123E-09	9.700E-10	1.227E-09	1.541E-09	1.552E-09
2.81605E-01	9.477E-10	1.230E-09	1.645E-09	1.679E-09	1.692E-09
4.58017E-01	1.047E-09	1.169E-09	1.461E-09	1.811E-09	1.780E-09
6.17876E-01	1.128E-09	1.407E-09	1.804E-09	1.815E-09	1.836E-09
7.55044E-01	1.385E-09	1.530E-09	1.785E-09	2.043E-09	2.001E-09
8.65631E-01	1.343E-09	1.778E-09	2.047E-09	2.089E-09	2.043E-09
9.44575E-01	2.297E-09	2.091E-09	2.264E-09	2.315E-09	2.208E-09
9.89401E-01	4.212E-09	3.597E-09	2.825E-09	2.527E-09	2.298E-09
TOTAL	1.256E-08	1.455E-08	1.831E-08	2.035E-08	2.028E-08

1.877E-08 1.339E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	5.090E-10	2.764E-10	3.170E-11	2.928E-12	2.489E-13
-9.89401E-01	5.101E-10	2.770E-10	3.176E-11	2.934E-12	2.494E-13
-9.44575E-01	5.143E-10	2.793E-10	3.204E-11	2.960E-12	2.516E-13
-8.65631E-01	5.222E-10	2.837E-10	3.255E-11	3.006E-12	2.555E-13
-7.55044E-01	5.335E-10	2.899E-10	3.328E-11	3.074E-12	2.612E-13
-6.17876E-01	5.485E-10	2.982E-10	3.425E-11	3.162E-12	2.687E-13
-4.58017E-01	5.671E-10	3.085E-10	3.544E-11	3.272E-12	2.780E-13
-2.81605E-01	5.895E-10	3.209E-10	3.689E-11	3.404E-12	2.891E-13
-9.50125E-02	6.155E-10	3.353E-10	3.855E-11	3.557E-12	3.018E-13
9.50125E-02	6.463E-10	3.512E-10	4.043E-11	3.728E-12	3.162E-13
2.81605E-01	6.764E-10	3.694E-10	4.249E-11	3.914E-12	3.318E-13
4.58017E-01	7.121E-10	3.882E-10	4.467E-11	4.111E-12	3.482E-13
6.17876E-01	7.469E-10	4.078E-10	4.688E-11	4.310E-12	3.646E-13
7.55044E-01	7.823E-10	4.266E-10	4.900E-11	4.499E-12	3.803E-13
8.65631E-01	8.138E-10	4.437E-10	5.090E-11	4.667E-12	3.940E-13
9.44575E-01	8.400E-10	4.573E-10	5.238E-11	4.797E-12	4.066E-13
9.89401E-01	8.563E-10	4.658E-10	5.327E-11	4.875E-12	4.109E-13
TOTAL	8.124E-09	4.424E-09	5.083E-10	4.682E-11	3.969E-12

3.223E-13

4. PI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 0.00335 TO 0.111 MEV NEUTRON SOURCE

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	0.0	0.0	0.0	0.0	0.0
-9.89401E-01	0.0	0.0	0.0	0.0	0.0
-9.44575E-01	0.0	0.0	0.0	0.0	0.0
-8.65631E-01	0.0	0.0	0.0	0.0	0.0
-7.55044E-01	0.0	0.0	0.0	0.0	0.0
-6.17876E-01	0.0	0.0	0.0	0.0	0.0
-4.58017E-01	0.0	0.0	0.0	0.0	0.0
-2.81605E-01	0.0	0.0	0.0	0.0	0.0
-9.50125E-02	0.0	0.0	0.0	0.0	0.0
5.50125E-02	0.0	0.0	0.0	0.0	0.0
2.81605E-01	0.0	0.0	0.0	0.0	0.0
4.58017E-01	0.0	0.0	0.0	0.0	0.0
6.17876E-01	0.0	0.0	0.0	0.0	0.0
7.55044E-01	0.0	0.0	0.0	0.0	0.0
8.65631E-01	0.0	0.0	0.0	0.0	0.0
9.44575E-01	0.0	0.0	0.0	0.0	0.0
9.89401E-01	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E 00	0.0	0.0	0.0	0.0	0.0
-9.89401E-01	0.0	0.0	0.0	0.0	0.0
-9.44575E-01	0.0	0.0	0.0	0.0	0.0
-8.65631E-01	0.0	0.0	0.0	0.0	0.0
-7.55044E-01	0.0	0.0	0.0	0.0	0.0
-6.17876E-01	0.0	0.0	0.0	0.0	0.0
-4.58017E-01	0.0	0.0	0.0	0.0	0.0
-2.81605E-01	0.0	0.0	0.0	0.0	0.0
-9.50125E-02	0.0	0.0	0.0	0.0	0.0
5.50125E-02	0.0	0.0	0.0	0.0	0.0
2.81605E-01	0.0	0.0	0.0	0.0	0.0
4.58017E-01	0.0	0.0	0.0	0.0	0.0
6.17876E-01	0.0	0.0	0.0	0.0	0.0
7.55044E-01	0.0	0.0	0.0	0.0	0.0
8.65631E-01	0.0	0.0	0.0	0.0	0.0
9.44575E-01	0.0	0.0	0.0	0.0	0.0
9.89401E-01	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0

4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON) 0.00335 TO 0.111 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E 00	0.0	C.C	C.C	0.0	C.C	0.0	0.0
-9.89401E-01	0.0	C.C	C.C	0.0	0.0	0.0	0.0
-9.44575E-01	0.0	C.C	C.C	0.0	0.0	0.0	0.0
-8.65631E-01	0.0	C.C	C.C	0.0	0.0	0.0	0.0
-7.55044E-01	0.0	C.C	0.0	0.0	0.0	0.0	0.0
-6.17876E-01	0.0	C.C	0.0	0.0	0.0	0.0	0.0
-4.58017E-01	0.0	C.C	0.0	0.0	0.0	0.0	0.0
-2.81605E-01	0.0	C.C	0.0	0.0	0.0	0.0	0.0
-9.50125E-02	0.0	C.C	0.0	0.0	C.C	0.0	0.0
9.50125E-02	0.0	C.C	0.0	0.0	0.0	0.0	0.0
2.81605E-01	0.0	C.C	C.C	0.0	0.0	0.0	0.0
4.58017E-01	0.0	C.C	C.C	0.0	C.C	0.0	0.0
6.17876E-01	0.0	C.C	C.C	0.0	0.0	0.0	0.0
7.55044E-01	0.0	0.0	C.C	0.0	0.0	0.0	0.0
8.65631E-01	0.0	C.C	0.0	0.0	0.0	0.0	0.0
9.44575E-01	0.0	C.C	0.0	0.0	0.0	0.0	0.0
9.89401E-01	0.0	C.C	C.C	0.0	0.0	0.0	0.0
TOTAL	0.0	C.C	0.0	0.0	0.0	0.0	0.0

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E 00	0.0	C.C	C.C	0.0	C.C	0.0
-9.89401E-01	0.0	C.C	C.C	0.0	C.C	C.C
-9.44575E-01	0.0	C.C	0.0	0.0	0.0	0.0
-8.65631E-01	0.0	C.C	0.0	0.0	0.0	0.0
-7.55044E-01	0.0	C.C	C.C	0.0	0.0	0.0
-6.17876E-01	0.0	C.C	0.0	C.C	0.0	0.0
-4.58017E-01	0.0	C.C	0.0	0.0	0.0	0.0
-2.81605E-01	0.0	C.C	0.0	0.0	0.0	0.0
-9.50125E-02	0.0	C.C	C.C	0.0	0.0	0.0
9.50125E-02	0.0	C.C	C.C	0.0	0.0	0.0
2.81605E-01	0.0	C.C	C.C	0.0	0.0	0.0
4.58017E-01	0.0	C.C	C.C	0.0	C.C	0.0
6.17876E-01	0.0	C.C	0.0	0.0	0.0	0.0
7.55044E-01	0.0	C.C	0.0	0.0	0.0	0.0
8.65631E-01	0.0	C.C	C.C	0.0	C.C	0.0
9.44575E-01	0.0	C.C	C.C	0.0	0.0	0.0
9.89401E-01	0.0	C.C	0.0	0.0	0.0	0.0
TOTAL	0.0	C.C	C.C	C.C	C.C	C.C

4. PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

0.00335 TO 0.111 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-00	7.552E-13	1.165E-12	1.919E-12	2.415E-12	2.602E-12	2.530E-12	1.965E-12
-9.89401E-01	7.570E-13	1.169E-12	1.926E-12	2.427E-12	2.615E-12	2.546E-12	1.981E-12
-9.44575E-01	7.642E-13	1.183E-12	1.957E-12	2.473E-12	2.674E-12	2.609E-12	2.046E-12
-8.65631E-01	7.782E-13	1.210E-12	2.017E-12	2.565E-12	2.788E-12	2.733E-12	2.165E-12
-7.55044E-01	7.990E-13	1.250E-12	2.107E-12	2.703E-12	2.958E-12	2.917E-12	2.334E-12
-6.17876E-01	8.265E-13	1.304E-12	2.230E-12	2.893E-12	3.194E-12	3.173E-12	2.563E-12
-4.58017E-01	8.608E-13	1.373E-12	2.390E-12	3.145E-12	3.513E-12	3.522E-12	2.878E-12
-2.81605E-01	9.017E-13	1.456E-12	2.591E-12	3.472E-12	3.937E-12	3.996E-12	3.322E-12
-9.50125E-02	9.490E-13	1.555E-12	2.839E-12	3.890E-12	4.497E-12	4.639E-12	3.956E-12
9.50125E-02	1.003E-12	1.678E-12	3.135E-12	4.410E-12	5.223E-12	5.515E-12	4.870E-12
2.81605E-01	1.065E-12	1.795E-12	3.486E-12	5.080E-12	6.193E-12	6.694E-12	6.199E-12
4.58017E-01	1.124E-12	1.923E-12	3.894E-12	5.861E-12	7.397E-12	8.285E-12	8.147E-12
6.17876E-01	1.172E-12	2.091E-12	4.362E-12	6.803E-12	8.924E-12	1.037E-11	1.100E-11
7.55044E-01	1.233E-12	2.214E-12	4.799E-12	7.830E-12	1.071E-11	1.300E-11	1.505E-11
8.65631E-01	1.307E-12	2.329E-12	5.283E-12	8.901E-12	1.267E-11	1.606E-11	2.043E-11
9.44575E-01	1.328E-12	2.468E-12	5.641E-12	9.845E-12	1.453E-11	1.916E-11	2.662E-11
9.89401E-01	1.328E-12	2.481E-12	5.896E-12	1.050E-11	1.587E-11	2.151E-11	3.190E-11
TOTAL	1.258E-11	2.115E-11	4.106E-11	6.050E-11	7.600E-11	8.595E-11	9.002E-11

COSINE	500.0	600.0	RANGE (METERS) 900.0	1200.0	1500.0	1800.0
-1.00000E-00	1.303E-12	7.939E-13	1.574E-13	3.433E-14	8.133E-15	1.959E-15
-9.89401E-01	1.320E-12	8.120E-13	1.774E-13	4.799E-14	1.595E-14	6.046E-15
-9.44575E-01	1.380E-12	8.686E-13	2.293E-13	8.806E-14	3.945E-14	1.854E-14
-8.65631E-01	1.483E-12	9.572E-13	2.845E-13	1.183E-13	5.657E-14	2.797E-14
-7.55044E-01	1.614E-12	1.057E-12	3.338E-13	1.522E-13	7.612E-14	3.779E-14
-6.17876E-01	1.780E-12	1.159E-12	3.438E-13	1.364E-13	6.337E-14	3.006E-14
-4.58017E-01	2.033E-12	1.290E-12	3.394E-13	1.195E-13	5.118E-14	2.320E-14
-2.81605E-01	2.328E-12	1.497E-12	3.614E-13	1.319E-13	5.592E-14	2.540E-14
-9.50125E-02	2.818E-12	1.830E-12	4.714E-13	1.731E-13	7.987E-14	3.823E-14
9.50125E-02	3.564E-12	2.360E-12	6.335E-13	2.351E-13	1.083E-13	5.314E-14
2.81605E-01	4.710E-12	3.206E-12	8.789E-13	3.211E-13	1.488E-13	7.296E-14
4.58017E-01	6.517E-12	4.615E-12	1.282E-12	4.175E-13	1.678E-13	7.366E-14
6.17876E-01	9.435E-12	7.102E-12	2.153E-12	6.404E-13	2.348E-13	9.426E-14
7.55044E-01	1.411E-11	1.157E-11	4.304E-12	1.384E-12	4.970E-13	2.101E-13
8.65631E-01	2.117E-11	1.924E-11	9.561E-12	3.771E-12	1.479E-12	6.151E-13
9.44575E-01	3.045E-11	3.076E-11	2.092E-11	1.065E-11	4.898E-12	2.196E-12
9.89401E-01	3.937E-11	4.324E-11	3.869E-11	2.541E-11	1.436E-11	7.489E-12
TOTAL	8.052E-11	6.627E-11	3.125E-11	1.438E-11	6.723E-12	3.165E-12



4 PI R\*\*2 CONCRETE KERMA (14MAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

0.00335 TO 0.111 MEV NEUTRON SOURCE

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E 00	7.683E-11	1.188E-10	1.966E-10	2.491E-10	2.707E-10	2.661E-10	2.133E-10
-9.89401E-01	7.701E-11	1.191E-10	1.974E-10	2.503E-10	2.719E-10	2.677E-10	2.149E-10
-9.44575E-01	7.773E-11	1.205E-10	2.004E-10	2.549E-10	2.779E-10	2.741E-10	2.214E-10
-8.65631E-01	7.913E-11	1.232E-10	2.056E-10	2.641E-10	2.893E-10	2.865E-10	2.334E-10
-7.55044E-01	8.121E-11	1.273E-10	2.155E-10	2.780E-10	3.064E-10	3.050E-10	2.505E-10
-6.17876E-01	8.396E-11	1.327E-10	2.278E-10	2.970E-10	3.301E-10	3.307E-10	2.736E-10
-4.58017E-01	8.739E-11	1.396E-10	2.437E-10	3.222E-10	3.621E-10	3.657E-10	3.054E-10
-2.81605E-01	9.148E-11	1.479E-10	2.638E-10	3.549E-10	4.046E-10	4.133E-10	3.501E-10
-9.50125E-02	9.621E-11	1.578E-10	2.885E-10	3.967E-10	4.606E-10	4.777E-10	4.137E-10
9.50125E-02	1.016E-10	1.700E-10	3.202E-10	4.487E-10	5.331E-10	5.652E-10	5.052E-10
2.81605E-01	1.078E-10	1.817E-10	3.533E-10	5.157E-10	6.300E-10	6.831E-10	6.380E-10
4.58017E-01	1.137E-10	1.946E-10	3.941E-10	5.936E-10	7.503E-10	8.419E-10	8.324E-10
6.17876E-01	1.185E-10	2.113E-10	4.409E-10	6.879E-10	9.027E-10	1.050E-09	1.117E-09
7.55044E-01	1.246E-10	2.236E-10	4.844E-10	7.902E-10	1.080E-09	1.312E-09	1.521E-09
8.65631E-01	1.320E-10	2.350E-10	5.328E-10	8.971E-10	1.277E-09	1.617E-09	2.057E-09
9.44575E-01	1.341E-10	2.490E-10	5.685E-10	9.915E-10	1.462E-09	1.926E-09	2.675E-09
9.89401E-01	1.341E-10	2.503E-10	5.940E-10	1.056E-09	1.596E-09	2.162E-09	3.202E-09
TOTAL	1.274E-09	2.143E-09	4.165E-09	6.146E-09	7.732E-09	8.760E-09	9.216E-09

COSINE	500.0	600.0	RANGE (METERS) 900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E 00	1.484E-10	9.692E-11	2.711E-11	9.401E-12	3.750E-12	1.609E-12
-9.89401E-01	1.501E-10	9.873E-11	2.909E-11	1.075E-11	4.520E-12	2.011E-12
-9.44575E-01	1.562E-10	1.044E-10	3.425E-11	1.471E-11	6.842E-12	3.245E-12
-8.65631E-01	1.665E-10	1.134E-10	3.985E-11	1.756E-11	8.558E-12	4.187E-12
-7.55044E-01	1.799E-10	1.236E-10	4.491E-11	2.120E-11	1.053E-11	5.176E-12
-6.17876E-01	1.968E-10	1.341E-10	4.621E-11	1.981E-11	9.360E-12	4.456E-12
-4.58017E-01	2.195E-10	1.477E-10	4.619E-11	1.834E-11	8.252E-12	3.822E-12
-2.81605E-01	2.524E-10	1.689E-10	5.074E-11	1.976E-11	8.804E-12	4.077E-12
-9.50125E-02	3.013E-10	2.026E-10	6.007E-11	2.402E-11	1.125E-11	5.380E-12
9.50125E-02	3.765E-10	2.560E-10	7.654E-11	3.037E-11	1.415E-11	6.886E-12
2.81605E-01	4.311E-10	3.406E-10	1.013E-10	3.915E-11	1.823E-11	8.882E-12
4.58017E-01	6.715E-10	4.811E-10	1.416E-10	4.873E-11	2.019E-11	8.991E-12
6.17876E-01	9.621E-10	7.287E-10	2.279E-10	7.068E-11	2.869E-11	1.096E-11
7.55044E-01	1.428E-09	1.173E-09	4.405E-10	1.435E-10	5.213E-11	2.213E-11
8.65631E-01	2.131E-09	1.937E-09	9.616E-10	3.788E-10	1.483E-10	6.151E-11
9.44575E-01	3.056E-09	3.082E-09	2.092E-09	1.062E-09	4.872E-10	2.179E-10
9.89401E-01	3.946E-09	4.331E-09	3.867E-09	2.539E-09	1.435E-09	7.489E-10
TOTAL	8.284E-09	6.853E-09	3.270E-09	1.511E-09	7.071E-10	3.329E-10

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.C	100.C	150.0	200.C	250.0
-1.00000E-00	8.134E-11	1.275E-10	2.182E-10	2.881E-10	3.429E-10
-9.89401E-01	8.152E-11	1.279E-10	2.190E-10	2.893E-10	3.432E-10
-8.44575E-01	8.219E-11	1.292E-10	2.219E-10	2.938E-10	3.448E-10
-8.65631E-01	8.352E-11	1.318E-10	2.271E-10	3.027E-10	3.513E-10
-7.55044E-01	8.548E-11	1.356E-10	2.363E-10	3.161E-10	3.638E-10
-6.17876E-01	8.807E-11	1.407E-10	2.481E-10	3.345E-10	3.823E-10
-4.58017E-01	9.129E-11	1.472E-10	2.633E-10	3.587E-10	4.026E-10
-2.81605E-01	9.513E-11	1.551E-10	2.823E-10	3.900E-10	4.393E-10
-9.50125E-02	9.956E-11	1.643E-10	3.057E-10	4.298E-10	4.800E-10
9.50125E-02	1.046E-10	1.758E-10	3.354E-10	4.790E-10	5.188E-10
2.81605E-01	1.104E-10	1.867E-10	3.655E-10	5.208E-10	5.610E-10
4.58017E-01	1.158E-10	1.987E-10	4.055E-10	5.743E-10	6.141E-10
6.17876E-01	1.203E-10	2.142E-10	4.481E-10	6.315E-10	6.743E-10
7.55044E-01	1.260E-10	2.257E-10	4.886E-10	6.929E-10	7.381E-10
8.44575E-01	1.328E-10	2.363E-10	5.333E-10	7.595E-10	8.078E-10
9.44575E-01	1.348E-10	2.492E-10	5.663E-10	8.338E-10	8.978E-10
9.89401E-01	1.348E-10	2.504E-10	5.898E-10	9.038E-10	9.938E-10
TOTAL	1.312E-09	2.214E-09	4.341E-09	6.478E-09	8.261E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	2.655E-10	2.117E-10	1.017E-10	4.839E-11	2.295E-11
-9.89401E-01	2.673E-10	2.136E-10	1.036E-10	4.970E-11	2.369E-11
-9.44575E-01	2.738E-10	2.198E-10	1.089E-10	5.363E-11	2.596E-11
-8.65631E-01	2.851E-10	2.298E-10	1.132E-10	5.685E-11	2.781E-11
-7.55044E-01	3.000E-10	2.417E-10	1.216E-10	6.105E-11	3.004E-11
-6.17876E-01	3.190E-10	2.549E-10	1.251E-10	6.097E-11	2.954E-11
-4.58017E-01	3.442E-10	2.718E-10	1.280E-10	6.111E-11	2.924E-11
-2.81605E-01	3.798E-10	2.968E-10	1.358E-10	6.425E-11	3.062E-11
-9.50125E-02	4.315E-10	3.342E-10	1.487E-10	7.029E-11	3.385E-11
9.50125E-02	5.075E-10	3.907E-10	1.688E-10	7.859E-11	3.765E-11
2.81605E-01	6.208E-10	4.771E-10	1.974E-10	8.957E-11	4.274E-11
4.58017E-01	7.952E-10	6.156E-10	2.412E-10	1.018E-10	4.611E-11
6.17876E-01	1.071E-09	8.127E-10	3.282E-10	1.260E-10	5.403E-11
7.55044E-01	1.506E-09	1.270E-09	5.314E-10	1.976E-10	7.973E-11
8.44575E-01	2.156E-09	1.976E-09	1.016E-09	4.178E-10	1.704E-10
9.44575E-01	3.005E-09	3.027E-09	2.032E-09	1.045E-09	4.816E-10
9.89401E-01	3.819E-09	4.167E-09	2.367E-09	1.341E-09	6.972E-10
TOTAL	9.637E-09	8.255E-09	4.255E-09	2.034E-09	9.637E-10

1.034E-08

0.00335 TO 0.111 MEV NEUTRON SOURCE

4 CI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	400.0
-1.00000E-00	7.924E-11	1.226E-10	2.032E-10	2.581E-10	2.775E-10
-9.89401E-01	7.943E-11	1.230E-10	2.040E-10	2.593E-10	2.791E-10
-9.44575E-01	8.016E-11	1.244E-10	2.072E-10	2.641E-10	2.857E-10
-8.65631E-01	8.160E-11	1.272E-10	2.133E-10	2.735E-10	2.984E-10
-7.55044E-01	8.374E-11	1.313E-10	2.226E-10	2.876E-10	3.173E-10
-6.17876E-01	8.656E-11	1.369E-10	2.352E-10	3.071E-10	3.437E-10
-4.58017E-01	9.007E-11	1.439E-10	2.516E-10	3.336E-10	3.795E-10
-2.81605E-01	9.426E-11	1.524E-10	2.722E-10	3.665E-10	4.281E-10
-9.50125E-02	9.911E-11	1.626E-10	2.976E-10	4.093E-10	4.941E-10
9.50125E-02	1.047E-10	1.751E-10	3.299E-10	4.626E-10	5.538E-10
2.81605E-01	1.110E-10	1.871E-10	3.639E-10	5.313E-10	6.494E-10
4.58017E-01	1.170E-10	2.003E-10	4.057E-10	6.112E-10	7.288E-10
6.17876E-01	1.219E-10	2.175E-10	4.537E-10	7.079E-10	8.289E-10
7.55044E-01	1.282E-10	2.501E-10	4.984E-10	8.128E-10	9.495E-10
8.65631E-01	1.358E-10	2.418E-10	5.480E-10	9.225E-10	1.111E-09
9.44575E-01	1.380E-10	2.562E-10	5.846E-10	1.019E-09	1.312E-09
9.89401E-01	1.380E-10	2.575E-10	6.109E-10	1.086E-09	1.503E-09
TOTAL	1.313E-09	2.208E-09	4.291E-09	6.334E-09	7.972E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1800.0
-1.00000E-00	1.590E-10	1.062E-10	3.234E-11	1.199E-11	2.185E-12
-9.89401E-01	1.607E-10	1.080E-10	3.437E-11	1.338E-11	2.598E-12
-9.44575E-01	1.670E-10	1.139E-10	3.967E-11	1.745E-11	3.867E-12
-8.65631E-01	1.776E-10	1.230E-10	4.541E-11	2.038E-11	4.834E-12
-7.55044E-01	1.912E-10	1.334E-10	5.056E-11	2.408E-11	5.845E-12
-6.17876E-01	2.084E-10	1.442E-10	5.184E-11	2.633E-11	7.099E-12
-4.58017E-01	2.316E-10	1.579E-10	5.174E-11	2.108E-11	8.436E-12
-2.81605E-01	2.651E-10	1.795E-10	5.628E-11	2.274E-11	9.680E-12
-9.50125E-02	3.156E-10	2.139E-10	6.568E-11	2.676E-11	1.257E-11
9.50125E-02	3.919E-10	2.682E-10	8.236E-11	3.317E-11	1.548E-11
2.81605E-01	5.090E-10	3.545E-10	1.074E-10	4.198E-11	1.959E-11
4.58017E-01	6.934E-10	4.980E-10	1.482E-10	5.152E-11	2.146E-11
6.17876E-01	9.909E-10	7.511E-10	2.358E-10	7.353E-11	2.786E-11
7.55044E-01	1.468E-09	1.206E-09	4.529E-10	1.475E-10	3.352E-11
8.65631E-01	2.189E-09	1.989E-09	9.864E-10	3.879E-10	4.992E-11
9.44575E-01	3.138E-09	3.164E-09	2.147E-09	1.089E-09	6.278E-11
9.89401E-01	4.053E-09	4.447E-09	3.971E-09	2.607E-09	7.697E-11
TOTAL	8.567E-09	7.096E-09	3.396E-09	1.571E-09	3.462E-10

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9	SCALAR FLUX
1.22E 01	MU=0.0000	MU=0.9894	MU=0.9440	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950	
1.165E-07	-9.541E-08	-4.165E-08	-4.165E-08	7.575E-09	2.167E-08	2.942E-08	-2.861E-09	-9.781E-09	2.200E-09	4.182E-05
-6.374E-07	-5.005E-07	-1.562E-07	6.162E-08	2.411E-07	3.481E-07	2.632E-07	2.233E-07	2.233E-07	3.956E-07	3.243E-04
1.00E 01	-1.010E-06	-5.775E-07	1.003E-06	1.003E-06	1.971E-06	1.372E-05	2.190E-06	2.531E-06	3.794E-06	1.642E-03
8.19E 00	-1.00E 01	9.838E-06	1.069E-05	1.178E-05	1.266E-05	1.372E-05	1.609E-05	2.100E-05	2.880E-05	6.852E-03
6.36E 00	-8.19E 00	9.133E-05	8.823E-05	8.476E-05	8.508E-05	9.316E-05	1.116E-04	1.407E-04	1.781E-04	2.346E-02
4.97E 00	-6.36E 00	3.666E-04	3.897E-04	3.897E-04	4.217E-04	4.592E-04	5.039E-04	5.548E-04	6.185E-04	1.468E-01
4.07E 00	-4.97E 00	9.267E-04	9.507E-04	9.507E-04	9.730E-04	1.004E-03	1.048E-03	1.111E-03	1.206E-03	2.157E-01
3.01E 00	-4.07E 00	4.002E-03	3.975E-03	3.922E-03	3.860E-03	3.794E-03	3.757E-03	3.789E-03	3.930E-03	9.822E-02
2.46E 00	-3.01E 00	5.970E-03	5.872E-03	5.710E-03	5.535E-03	5.402E-03	5.375E-03	5.522E-03	5.930E-03	2.157E-01
2.35E 00	-2.46E 00	5.075E-03	5.065E-03	5.065E-03	5.122E-03	5.281E-03	5.592E-03	6.107E-03	6.890E-03	1.439E-02
1.83E 00	-2.35E 00	9.698E-03	9.797E-03	1.001E-02	1.037E-02	1.093E-02	1.173E-02	1.285E-02	1.439E-02	2.352E-02
1.11E 00	-1.83E 00	2.427E-02	2.446E-02	2.485E-02	2.550E-02	2.647E-02	2.786E-02	2.981E-02	3.252E-02	6.567E-02
5.50E-01	-1.11E 00	4.919E-02	4.971E-02	5.074E-02	5.229E-02	5.444E-02	5.727E-02	6.095E-02	6.567E-02	1.439E-02
1.11E-01	-5.50E-01	2.711E-01	2.728E-01	2.760E-01	2.809E-01	2.874E-01	2.957E-01	3.060E-01	3.185E-01	2.157E-01
3.35E-02	-1.11E-01	1.984E-01	1.992E-01	2.008E-01	2.031E-01	2.061E-01	2.098E-01	2.141E-01	2.195E-01	1.081E-01
5.83E-04	-3.35E-02	1.009E 01	1.012E 01	1.018E 01	1.026E 01	1.035E 01	1.049E 01	1.064E 01	1.081E 01	4.143E-04
1.01E-04	-5.83E-04	3.930E 01	3.939E 01	3.957E 01	3.981E 01	4.013E 01	4.051E 01	4.095E 01	4.143E 01	1.114E 02
2.90E-05	-1.01E-04	1.065E 02	1.067E 02	1.072E 02	1.077E 02	1.085E 02	1.093E 02	1.103E 02	1.114E 02	2.748E 02
1.07E-05	-2.90E-05	2.646E 02	2.652E 02	2.660E 02	2.672E 02	2.688E 02	2.706E 02	2.726E 02	2.748E 02	6.905E 02
3.06E-06	-1.07E-05	6.729E 02	6.739E 02	6.759E 02	6.786E 02	6.820E 02	6.860E 02	6.905E 02	6.954E 02	1.439E 03
1.12E-06	-3.06E-06	1.408E 03	1.410E 03	1.414E 03	1.419E 03	1.426E 03	1.433E 03	1.442E 03	1.451E 03	2.014E 03
4.14E-07	-1.12E-06	1.962E 03	1.963E 03	1.970E 03	1.977E 03	1.985E 03	1.994E 03	2.004E 03	2.014E 03	
0.0	-4.14E-07									

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9440	MU=0.9894	
1.165E-08	8.085E-08	1.296E-07	1.255E-07	2.712E-07	1.691E-06	2.041E-06	1.096E-05	2.014E-04	4.182E-05
1.315E-06	1.381E-06	1.900E-06	3.329E-06	3.329E-06	1.155E-05	2.063E-05	8.412E-05	1.526E-03	3.243E-04
1.030E-05	9.123E-06	1.073E-05	2.585E-05	2.585E-05	7.506E-05	8.003E-05	4.162E-04	7.597E-03	1.642E-03
6.36E 00	-8.19E 00	5.160E-05	6.979E-05	9.737E-05	2.987E-04	5.168E-04	1.852E-03	3.050E-02	6.852E-03
4.97E 00	-6.36E 00	2.835E-04	2.788E-04	1.136E-04	7.353E-04	1.568E-03	8.080E-03	9.713E-02	2.346E-02
4.07E 00	-4.97E 00	9.467E-04	9.467E-04	1.283E-03	1.863E-03	5.522E-03	1.301E-02	1.468E-01	4.243E-02
3.01E 00	-4.07E 00	1.311E-03	1.979E-03	3.025E-03	4.748E-03	9.219E-03	5.565E-02	3.469E-01	9.822E-02
2.46E 00	-3.01E 00	5.492E-03	6.865E-03	8.502E-03	1.655E-02	2.305E-02	5.592E-02	6.646E-01	2.157E-01
2.35E 00	-2.46E 00	1.047E-02	9.510E-03	1.436E-02	2.593E-02	3.480E-02	8.019E-02	9.249E-01	3.099E-01
1.83E 00	-2.35E 00	8.939E-03	1.161E-02	1.665E-02	1.833E-02	4.250E-02	9.156E-02	8.732E-01	3.135E-01
1.11E 00	-1.83E 00	2.104E-02	2.30E-02	2.882E-02	4.202E-02	6.108E-02	1.491E-01	1.009E 00	4.773E-01
5.50E-01	-1.11E 00	4.560E-02	4.679E-02	5.559E-02	8.341E-02	1.099E-01	1.712E-01	1.338E 00	8.011E-01
1.11E-01	-5.50E-01	8.137E-02	8.671E-02	1.046E-01	1.379E-01	1.571E-01	2.058E-01	9.687E-01	1.178E 00
3.35E-02	-1.11E-01	3.647E-01	3.519E-01	4.067E-01	4.436E-01	4.578E-01	5.479E-01	8.166E-01	4.410E 00
5.83E-04	-3.35E-02	2.314E-01	2.407E-01	2.467E-01	2.550E-01	2.660E-01	2.733E-01	2.876E-01	2.850E 00
2.90E-05	-1.01E-04	1.119E 01	1.140E 01	1.160E 01	1.179E 01	1.197E 01	1.212E 01	1.224E 01	1.379E 02
1.07E-05	-2.90E-05	4.194E 01	4.301E 01	4.352E 01	4.398E 01	4.476E 01	4.461E 01	4.485E 01	5.254E 02
3.06E-06	-1.07E-05	1.125E 02	1.137E 02	1.159E 02	1.168E 02	1.176E 02	1.181E 02	1.185E 02	1.409E 03
1.12E-06	-3.06E-06	2.711E 02	2.794E 02	2.838E 02	2.856E 02	2.871E 02	2.881E 02	2.887E 02	3.471E 03
4.14E-07	-1.12E-06	7.005F 02	7.056E 02	7.150E 02	7.190E 02	7.222E 02	7.246E 02	7.257E 02	8.777E 03
0.0	-4.14E-07	1.460E 03	1.470E 03	1.479E 03	1.494E 03	1.500E 03	1.504E 03	1.507E 03	1.830E 04
		2.025E 03	2.047E 03	2.057E 03	2.065E 03	2.072E 03	2.076E 03	2.078E 03	2.539E 04

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01--1.50E 01	MU=0.0950	MU=0.0994	MU=0.0946	MU=0.0866	MU=0.0750	MU=0.0619	MU=0.0450	MU=0.02816	MU=0.0950
1.00E 01--1.22E 01	-1.095E-07	-8.554E-08	-3.478E-08	1.341E-08	2.771E-08	2.984E-08	-8.819E-09	-1.468E-08	8.754E-10
8.19E 00--1.00E 01	-6.280E-07	-4.915E-07	-1.199E-07	8.453E-08	3.823E-07	3.917E-07	2.459E-07	1.889E-07	4.115E-07
6.36E 00--8.19E 00	-1.050E-07	-5.855E-07	1.477E-07	1.604E-06	2.439E-06	2.500E-06	2.295E-06	2.704E-06	4.340E-06
4.97E 00--6.36E 00	1.083E-05	1.115E-05	1.219E-05	1.350E-05	1.455E-05	1.591E-05	1.909E-05	2.563E-05	3.588E-05
3.01E 00--4.97E 00	1.066E-04	1.055E-04	1.021E-04	9.877E-05	1.008E-04	1.129E-04	1.381E-04	1.761E-04	2.239E-04
2.46E 00--3.01E 00	4.090E-04	4.133E-04	4.298E-04	4.586E-04	4.951E-04	5.380E-04	5.882E-04	6.484E-04	7.230E-04
2.35E 00--2.46E 00	1.040E-03	1.041E-03	1.048E-03	1.062E-03	1.082E-03	1.113E-03	1.161E-03	1.233E-03	1.347E-03
1.83E 00--2.35E 00	4.111E-03	4.104E-03	4.076E-03	4.025E-03	3.957E-03	3.895E-03	3.875E-03	3.940E-03	4.169E-03
1.11E 00--1.83E 00	6.215E-03	6.193E-03	6.112E-03	5.987E-03	5.877E-03	5.840E-03	5.948E-03	6.274E-03	6.925E-03
5.50E-01--1.11E 00	6.236E-03	6.237E-03	6.248E-03	6.300E-03	6.436E-03	6.711E-03	7.186E-03	7.928E-03	9.019E-03
3.35E-02--5.50E-01	1.290E-02	1.294E-02	1.309E-02	1.341E-02	1.393E-02	1.471E-02	1.583E-02	1.736E-02	1.943E-02
5.83E-04--3.35E-02	3.551E-02	3.559E-02	3.595E-02	3.675E-02	3.781E-02	3.947E-02	4.175E-02	4.491E-02	4.912E-02
1.01E-04--5.83E-04	8.473E-02	8.495E-02	8.566E-02	8.764E-02	9.026E-02	9.385E-02	9.852E-02	1.045E-01	1.120E-01
2.90E-05--1.01E-04	5.985E-01	5.985E-01	6.024E-01	6.109E-01	6.209E-01	6.353E-01	6.535E-01	6.757E-01	7.029E-01
3.06E-06--2.90E-05	5.045E-01	5.070E-01	5.117E-01	5.183E-01	5.271E-01	5.378E-01	5.506E-01	5.652E-01	5.819E-01
1.07E-05--3.06E-06	2.859E 01	2.862E 01	2.873E 01	2.895E 01	2.926E 01	2.967E 01	3.016E 01	3.073E 01	3.138E 01
1.12E-06--1.07E-05	1.182E 02	1.183E 02	1.187E 02	1.195E 02	1.206E 02	1.220E 02	1.237E 02	1.257E 02	1.280E 02
4.14E-07--1.12E-06	3.322E 02	3.325E 02	3.336E 02	3.350E 02	3.384E 02	3.421E 02	3.464E 02	3.515E 02	3.571E 02
0.0	8.527E 02	8.533E 02	8.558E 02	8.604E 02	8.669E 02	8.752E 02	8.852E 02	8.965E 02	9.090E 02
	2.212E 03	2.213E 03	2.219E 03	2.230E 03	2.246E 03	2.265E 03	2.289E 03	2.315E 03	2.345E 03
	4.702E 03	4.705E 03	4.717E 03	4.730E 03	4.749E 03	4.807E 03	4.853E 03	4.905E 03	4.962E 03
	6.652E 03	6.656E 03	6.672E 03	6.700E 03	6.739E 03	6.787E 03	6.842E 03	6.904E 03	6.972E 03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01--1.50E 01	MU=0.0950	MU=0.2316	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	2.691E-05
1.00E 01--1.22E 01	8.506E-08	8.190E-07	1.591E-07	1.573E-07	5.520E-07	2.033E-06	7.294E-06	1.284E-04	2.199E-04
8.19E 00--1.00E 01	6.118E-07	1.761E-06	1.605E-06	3.322E-06	5.207E-06	1.597E-05	5.970E-05	1.019E-03	1.183E-03
6.36E 00--8.19E 00	9.174E-06	1.005E-05	1.056E-05	2.262E-05	3.134E-05	9.710E-05	3.137E-04	5.315E-03	5.237E-03
4.97E 00--6.36E 00	6.030E-05	6.452E-05	6.409E-05	1.402E-04	1.999E-04	4.770E-04	1.464E-03	2.188E-02	1.851E-02
3.01E 00--4.97E 00	3.389E-04	3.571E-04	3.574E-04	7.575E-04	9.930E-04	2.070E-03	5.093E-03	6.847E-02	3.448E-02
2.46E 00--3.01E 00	5.801E-04	9.839E-04	1.466E-03	1.291E-03	2.979E-03	4.397E-03	1.064E-02	1.005E-01	7.444E-02
2.35E 00--2.46E 00	1.890E-03	1.531E-03	2.759E-03	3.377E-03	6.104E-03	1.073E-02	2.300E-02	2.153E-01	1.819E-01
1.83E 00--2.35E 00	3.108E-03	7.114E-03	5.481E-03	1.138E-02	1.317E-02	2.560E-02	5.257E-02	8.824E-01	2.876E-01
1.11E 00--1.83E 00	5.675E-03	1.011E-02	1.505E-02	1.360E-02	2.914E-02	3.757E-02	8.445E-02	7.213E-01	2.917E-01
5.50E-01--1.11E 00	7.878E-03	1.527E-02	1.899E-02	1.743E-02	3.300E-02	4.159E-02	8.109E-02	6.015E-01	4.666E-01
3.35E-02--5.50E-01	3.190E-02	3.190E-02	2.490E-02	4.796E-02	9.342E-02	8.341E-02	1.182E-01	6.307E-01	9.590E-01
5.83E-04--3.35E-02	6.344E-02	6.344E-02	7.304E-02	9.803E-02	4.418E-02	1.617E-01	2.073E-01	8.536E-01	1.739E 00
1.01E-04--5.83E-04	1.152E-01	1.152E-01	1.550E-01	1.663E-01	1.848E-01	2.336E-01	2.802E-01	5.743E-01	9.482E 00
2.90E-05--1.01E-04	6.631E-01	6.631E-01	8.318E-01	8.708E-01	8.411E-01	1.006E 00	9.612E-01	1.125E 00	7.208E 00
3.06E-06--2.90E-05	5.707E-01	6.043E-01	6.173E-01	6.366E-01	6.614E-01	6.736E-01	6.967E-01	7.051E-01	4.022E 02
4.14E-07--3.06E-06	3.208E 01	3.285E 01	3.362E 01	3.440E 01	3.514E 01	3.579E 01	3.632E 01	3.665E 01	1.632E 03
0.0	1.304E 02	1.329E 02	1.354E 02	1.379E 02	1.402E 02	1.422E 02	1.437E 02	1.446E 02	4.543E 03
	3.630E 02	3.692E 02	3.754E 02	3.813E 02	3.867E 02	3.912E 02	3.947E 02	3.966E 02	1.154E 04
	9.223E 02	9.359E 02	9.494E 02	9.628E 02	9.736E 02	9.831E 02	9.902E 02	9.943E 02	2.972E 04
	2.275E 03	2.407E 03	2.438E 03	2.467E 03	2.493E 03	2.514E 03	2.530E 03	2.539E 03	8.284E 04
	5.021E 03	5.082E 03	5.141E 03	5.197E 03	5.246E 03	5.286E 03	5.316E 03	5.332E 03	8.819E 04
	7.043E 03	7.116E 03	7.187E 03	7.255E 03	7.313E 03	7.360E 03	7.392E 03	7.409E 03	

## FISSION SOURCE

4 PI R\*\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01---1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.00E 01---1.22E 01	-9.298E-08	-7.601E-08	-2.801E-08	7.834E-09	2.484E-08	2.339E-08	-7.050E-09	-1.214E-08	3.911E-09
1.00E 01---1.22E 01	-5.431E-07	-4.237E-07	-8.901E-08	1.068E-07	3.694E-07	3.326E-07	2.028E-07	1.565E-07	3.908E-07
8.19E 00---1.00E 01	-9.313E-07	-5.065E-07	2.334E-07	1.617E-06	2.346E-06	2.322E-06	2.104E-06	2.541E-06	4.432E-06
6.36E 00---8.19E 00	1.052E-05	1.083E-05	1.185E-05	1.314E-05	1.421E-05	1.568E-05	1.907E-05	2.591E-05	3.647E-05
4.97E 00---6.36E 00	1.043E-04	1.034E-04	1.003E-04	9.765E-05	1.007E-04	1.141E-04	1.404E-04	1.793E-04	2.277E-04
4.07E 00---4.97E 00	4.038E-04	4.079E-04	4.238E-04	4.515E-04	4.868E-04	5.285E-04	5.776E-04	6.369E-04	7.112E-04
3.01E 00---4.07E 00	9.960E-04	9.973E-04	1.003E-03	1.014E-03	1.031E-03	1.060E-03	1.104E-03	1.175E-03	1.287E-03
2.46E 00---3.01E 00	3.738E-03	3.738E-03	3.714E-03	3.669E-03	3.613E-03	3.566E-03	3.562E-03	3.653E-03	3.910E-03
2.35E 00---2.46E 00	5.694E-03	5.677E-03	5.619E-03	5.535E-03	5.482E-03	5.433E-03	5.695E-03	6.104E-03	6.843E-03
1.83E 00---2.35E 00	6.230E-03	6.234E-03	6.241E-03	6.335E-03	6.511E-03	6.828E-03	7.353E-03	8.155E-03	9.327E-03
1.11E 00---1.83E 00	1.331E-02	1.335E-02	1.331E-02	1.385E-02	1.442E-02	1.525E-02	1.843E-02	2.022E-02	2.522E-02
5.50E 01---1.11E 00	3.828E-02	3.838E-02	3.880E-02	3.965E-02	4.098E-02	4.289E-02	4.553E-02	4.909E-02	5.385E-02
1.11E 01---5.50E 01	9.774E-02	9.799E-02	9.906E-02	1.011E-01	1.041E-01	1.083E-01	1.136E-01	1.203E-01	1.286E-01
3.35E 02---1.11E 01	7.576E-01	7.588E-01	7.639E-01	7.736E-01	7.876E-01	8.060E-01	8.289E-01	8.564E-01	8.880E-01
5.83E 04---3.35E 02	6.897E-01	6.705E-01	6.743E-01	6.803E-01	6.898E-01	7.020E-01	7.189E-01	7.346E-01	7.547E-01
1.01E 04---5.83E 04	3.965E 01	3.965E 01	3.983E 01	4.018E 01	4.064E 01	4.125E 01	4.200E 01	4.288E 01	4.386E 01
2.90E 05---1.01E 04	1.681E 02	1.682E 02	1.689E 02	1.702E 02	1.720E 02	1.743E 02	1.771E 02	1.803E 02	1.840E 02
1.07E 05---2.90E 05	4.815E 02	4.819E 02	4.838E 02	4.872E 02	4.919E 02	4.981E 02	5.055E 02	5.141E 02	5.236E 02
3.06E 06---1.07E 05	1.260E 03	1.261E 03	1.265E 03	1.273E 03	1.285E 03	1.299E 03	1.317E 03	1.337E 03	1.359E 03
1.12E 06---3.06E 06	3.310E 03	3.313E 03	3.323E 03	3.343E 03	3.371E 03	3.407E 03	3.450E 03	3.498E 03	3.552E 03
4.14E 07---1.12E 06	7.113E 03	7.119E 03	7.140E 03	7.180E 03	7.236E 03	7.308E 03	7.393E 03	7.491E 03	7.598E 03
0.0 ---4.14E-07	1.017E 04	1.018E 04	1.021E 04	1.026E 04	1.033E 04	1.042E 04	1.053E 04	1.065E 04	1.078E 04

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01---1.50E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	2.087E-05
1.00E 01---1.22E 01	3.697E-08	1.095E-07	1.278E-07	1.877E-07	5.000E-07	1.729E-06	6.373E-06	9.647E-05	1.766E-04
1.00E 01---1.22E 01	1.042E-06	1.301E-06	2.044E-06	2.656E-06	5.764E-06	1.531E-05	5.157E-05	7.850E-04	9.808E-04
8.19E 00---1.00E 01	5.859E-06	1.100E-05	1.213E-05	1.943E-05	3.502E-05	8.317E-05	2.824E-04	4.241E-03	4.465E-03
6.36E 00---8.19E 00	4.332E-05	6.929E-05	7.817E-05	1.261E-04	2.203E-04	4.901E-04	1.343E-03	1.763E-02	1.596E-02
4.97E 00---6.36E 00	2.512E-04	3.793E-04	4.322E-04	6.823E-04	1.086E-03	2.111E-03	4.849E-03	5.388E-02	3.046E-02
4.07E 00---4.97E 00	9.408E-04	8.439E-04	1.302E-03	1.592E-03	2.677E-03	4.556E-03	9.861E-03	7.763E-02	6.197E-02
3.01E 00---4.07E 00	1.277E-03	1.975E-03	2.266E-03	3.678E-03	5.618E-03	1.023E-02	2.093E-02	1.559E-01	1.631E-01
2.46E 00---3.01E 00	5.258E-03	4.634E-03	7.591E-03	9.105E-03	1.497E-02	2.364E-02	4.943E-02	3.902E-01	2.713E-01
2.35E 00---2.46E 00	9.303E-03	8.895E-03	1.444E-02	1.712E-02	2.693E-02	4.118E-02	8.157E-02	6.110E-01	2.756E-01
1.83E 00---2.35E 00	1.247E-02	1.210E-02	1.792E-02	2.103E-02	3.097E-02	4.820E-02	7.799E-02	4.677E-01	4.480E-01
1.83E 00---2.35E 00	2.614E-02	2.463E-02	3.499E-02	3.903E-02	5.500E-02	7.304E-02	1.180E-01	6.572E-01	9.978E-01
5.50E 01---1.11E 00	6.420E-02	6.530E-02	8.280E-02	9.391E-02	1.201E-01	1.536E-01	2.186E-01	4.581E-01	1.897E 00
1.11E 01---5.50E 01	1.222E-01	1.646E-01	1.566E-01	1.957E-01	2.042E-01	2.495E-01	2.902E-01	4.627E-01	1.167E 00
3.35E 02---1.11E 01	7.915E-01	1.060E 00	9.470E-01	1.123E 00	1.078E 00	1.207E 00	1.231E 00	1.258E 00	1.269E 00
5.83E 04---3.35E 02	7.858E-01	7.967E-01	8.308E-01	8.508E-01	8.810E-01	9.011E-01	9.232E-01	9.350E-01	9.769E 00
1.01E 04---5.83E 04	4.494E 01	4.609E 01	4.727E 01	4.844E 01	4.955E 01	5.052E 01	5.129E 01	5.176E 01	5.531E 02
2.90E 05---1.01E 04	1.879E 02	1.921E 02	1.963E 02	2.003E 02	2.041E 02	2.074E 02	2.098E 02	2.113E 02	2.352E 02
1.07E 05---2.90E 05	5.339E 02	5.446E 02	5.533E 02	5.657E 02	5.752E 02	5.832E 02	5.892E 02	5.927E 02	6.680E 03
3.06E 06---1.07E 05	1.383E 03	1.408E 03	1.433E 03	1.458E 03	1.477E 03	1.495E 03	1.508E 03	1.516E 03	1.730E 04
1.12E 06---3.06E 06	3.510E 03	3.668E 03	3.727E 03	3.782E 03	3.832E 03	3.873E 03	3.903E 03	3.921E 03	4.515E 04
4.14E 07---1.12E 06	7.712E 03	7.828E 03	7.942E 03	8.050E 03	8.146E 03	8.226E 03	8.285E 03	8.318E 03	9.646E 04
0.0 ---4.14E-07	1.091E 04	1.106E 04	1.120E 04	1.133E 04	1.145E 04	1.154E 04	1.161E 04	1.164E 04	1.366E 05

## FISSION SOURCE

4 PI R\*\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01---1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.50E 01---1.72E 01	-5.970E-08	-4.873E-08	-1.655E-08	3.332E-09	2.739E-08	1.162E-08	-7.024E-09	-8.810E-09	5.546E-09
1.72E 01---2.00E 01	-3.629E-07	-2.815E-07	-4.438E-06	1.063E-07	2.854E-07	2.450E-07	1.240E-07	1.049E-07	3.224E-07
2.00E 01---2.25E 01	-6.496E-07	-3.346E-07	2.898E-07	1.365E-06	1.856E-06	1.778E-06	1.592E-06	2.039E-06	3.586E-06
2.25E 01---2.50E 01	8.19E 00---8.19E 00	9.034E-06	9.892E-06	1.100E-05	1.199E-05	1.347E-05	1.676E-05	2.314E-05	3.275E-05
2.50E 01---2.75E 01	8.47E 00---8.47E 00	8.773E-06	8.561E-05	8.440E-05	8.51E-05	1.017E-04	1.260E-04	1.608E-04	2.035E-04
2.75E 01---3.00E 01	3.448E-04	3.681E-04	3.610E-04	3.835E-04	4.124E-04	4.470E-04	4.880E-04	5.379E-04	6.012E-04
3.00E 01---3.25E 01	8.036E-04	8.042E-04	8.070E-04	8.133E-04	8.252E-04	8.463E-04	8.820E-04	9.409E-04	1.038E-03
3.25E 01---3.50E 01	2.762E-03	2.759E-03	2.744E-03	2.717E-03	2.687E-03	2.671E-03	2.698E-03	2.813E-03	3.075E-03
3.50E 01---3.75E 01	4.246E-03	4.241E-03	4.223E-03	4.211E-03	4.243E-03	4.362E-03	4.620E-03	5.079E-03	5.830E-03
3.75E 01---4.00E 01	5.365E-03	5.375E-03	5.418E-03	5.521E-03	5.715E-03	6.044E-03	6.559E-03	7.325E-03	8.424E-03
4.00E 01---4.25E 01	1.190E-02	1.194E-02	1.210E-02	1.243E-02	1.295E-02	1.372E-02	1.480E-02	1.626E-02	1.822E-02
4.25E 01---4.50E 01	3.659E-02	3.670E-02	3.716E-02	3.808E-02	3.947E-02	4.146E-02	4.418E-02	4.781E-02	5.261E-02
4.50E 01---4.75E 01	1.032E-01	1.035E-01	1.046E-01	1.068E-01	1.100E-01	1.146E-01	1.200E-01	1.271E-01	1.357E-01
4.75E 01---5.00E 01	9.075E-01	9.090E-01	9.154E-01	9.275E-01	9.474E-01	9.755E-01	9.958E-01	1.030E-00	1.070E-00
5.00E 01---5.25E 01	8.463E-01	8.474E-01	8.522E-01	8.609E-01	8.734E-01	8.896E-01	9.095E-01	9.329E-01	9.595E-01
5.25E 01---5.50E 01	5.271E 01	5.277E 01	5.304E 01	5.353E 01	5.423E 01	5.514E 01	5.624E 01	5.753E 01	5.899E 01
5.50E 01---5.75E 01	2.316E 02	2.319E 02	2.330E 02	2.350E 02	2.378E 02	2.415E 02	2.459E 02	2.511E 02	2.569E 02
5.75E 01---6.00E 01	6.814E 02	6.822E 02	6.852E 02	6.909E 02	6.988E 02	7.092E 02	7.216E 02	7.361E 02	7.522E 02
6.00E 01---6.25E 01	1.836E 03	1.838E 03	1.846E 03	1.860E 03	1.880E 03	1.906E 03	1.938E 03	1.974E 03	2.015E 03
6.25E 01---6.50E 01	4.930E 03	4.935E 03	4.955E 03	4.991E 03	5.043E 03	5.109E 03	5.189E 03	5.281E 03	5.383E 03
6.50E 01---6.75E 01	1.080E 04	1.081E 04	1.085E 04	1.092E 04	1.103E 04	1.117E 04	1.134E 04	1.153E 04	1.174E 04
6.75E 01---7.00E 01	1.573E 04	1.575E 04	1.580E 04	1.591E 04	1.605E 04	1.623E 04	1.644E 04	1.668E 04	1.695E 04
7.00E 01---7.25E 01	4.693E-08	4.697E-08	4.699E-08	4.699E-08	4.699E-08	4.699E-08	4.699E-08	4.699E-08	4.699E-08
7.25E 01---7.50E 01	7.005E-07	1.225E-06	1.566E-06	2.358E-06	4.875E-06	1.380E-06	4.642E-06	5.401E-05	1.262E-05
7.50E 01---7.75E 01	6.285E-06	8.406E-06	1.153E-05	1.637E-05	3.235E-05	7.877E-05	3.993E-05	4.604E-04	1.131E-04
7.75E 01---8.00E 01	4.594E-05	5.623E-05	7.689E-05	1.133E-04	2.114E-04	4.545E-04	1.152E-03	1.129E-02	3.239E-03
8.00E 01---8.25E 01	2.606E-04	3.081E-04	4.188E-04	6.000E-04	1.013E-03	1.895E-03	4.156E-03	3.315E-02	1.171E-02
8.25E 01---8.50E 01	6.533E-04	8.458E-04	1.019E-03	1.480E-03	2.260E-03	3.961E-03	7.939E-03	4.584E-02	2.231E-02
8.50E 01---8.75E 01	1.256E-03	1.442E-03	2.033E-03	2.895E-03	4.668E-03	7.952E-03	1.552E-02	8.165E-02	4.208E-02
8.75E 01---9.00E 01	3.364E-03	4.595E-03	5.717E-03	8.420E-03	1.247E-02	2.080E-02	4.029E-02	2.498E-01	1.214E-01
9.00E 01---9.25E 01	6.720E-03	9.102E-03	1.153E-02	1.659E-02	2.407E-02	3.872E-02	7.208E-02	4.272E-01	2.194E-01
9.25E 01---9.50E 01	1.960E-02	1.250E-02	1.510E-02	2.029E-02	2.716E-02	3.984E-02	6.524E-02	2.814E-01	2.214E-01
9.50E 01---9.75E 01	1.998E-02	2.509E-02	2.875E-02	3.670E-02	4.600E-02	6.260E-02	9.150E-02	2.492E-01	3.627E-01
9.75E 01---1.00E 01	5.776E-02	6.817E-02	7.753E-02	9.375E-02	1.130E-01	1.436E-01	1.923E-01	4.041E-01	9.139E-01
1.00E 01---1.11E 01	1.523E-01	1.545E-01	1.772E-01	1.891E-01	2.154E-01	2.373E-01	2.722E-01	3.328E-01	1.950E 00
1.11E 01---1.22E 01	1.181E 00	1.122E 00	1.245E 00	1.248E 00	1.345E 00	1.367E 00	1.436E 00	1.456E 00	1.410E 00
1.22E 01---1.33E 01	9.835E-01	1.023E 00	1.051E 00	1.088E 00	1.117E 00	1.146E 00	1.167E 00	1.181E 00	1.239E 01
1.33E 01---1.44E 01	6.058E 01	6.226E 01	6.399E 01	6.570E 01	6.729E 01	6.877E 01	6.973E 01	7.036E 01	7.584E 02
1.44E 01---1.55E 01	2.632E 02	2.698E 02	2.765E 02	2.831E 02	2.891E 02	2.943E 02	2.982E 02	3.005E 02	3.292E 03
1.55E 01---1.66E 01	7.697E 02	7.880E 02	8.065E 02	8.244E 02	8.407E 02	8.547E 02	8.652E 02	8.713E 02	9.627E 03
1.66E 01---1.77E 01	2.058E 03	2.103E 03	2.149E 03	2.193E 03	2.232E 03	2.266E 03	2.291E 03	2.306E 03	2.575E 04
1.77E 01---1.88E 01	5.492E 03	5.605E 03	5.718E 03	5.826E 03	5.924E 03	6.007E 03	6.068E 03	6.103E 03	6.866E 04
1.88E 01---1.99E 01	1.196E 04	1.219E 04	1.243E 04	1.265E 04	1.284E 04	1.301E 04	1.313E 04	1.320E 04	1.495E 05
1.99E 01---2.10E 01	1.723E 04	1.753E 04	1.782E 04	1.810E 04	1.835E 04	1.856E 04	1.870E 04	1.878E 04	2.156E 05

SCALAR  
FLUXANGLE 17  
MU= 0.9894ANGLE 16  
MU= 0.9446ANGLE 15  
MU= 0.8656ANGLE 14  
MU= 0.7550ANGLE 13  
MU= 0.6179ANGLE 12  
MU= 0.4580ANGLE 11  
MU= 0.2816ANGLE 10  
MU= 0.0950

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.2E 01--1.50E 01	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000	MU=0.0000
1.00E 01--1.22E 01	-3.594E-08	-2.930E-08	-9.367E-09	-7.365E-09	-1.792E-08	-6.361E-09	-5.336E-09	-5.231E-09	5.747E-09
1.00E 01--1.22E 01	-2.274E-07	-1.755E-07	-2.361E-08	8.375E-08	1.965E-07	1.563E-07	7.397E-08	7.670E-08	2.490E-07
8.19E 00--1.00E 01	-4.263E-07	-2.089E-07	2.800E-07	1.022E-06	1.334E-06	1.233E-06	1.133E-06	1.335E-06	2.788E-06
6.36E 00--8.19E 00	6.735E-06	6.932E-06	6.932E-06	8.466E-06	9.309E-06	1.063E-06	1.346E-05	1.874E-05	2.654E-05
4.97E 00--6.36E 00	6.902E-05	6.854E-05	6.724E-05	6.696E-05	7.107E-05	8.232E-05	1.021E-04	1.299E-04	1.638E-04
4.07E 00--4.97E 00	2.689E-04	2.713E-04	2.809E-04	2.978E-04	3.195E-04	3.458E-04	3.772E-04	4.158E-04	4.653E-04
3.01E 00--4.07E 00	5.948E-04	5.950E-04	5.961E-04	5.994E-04	6.069E-04	6.216E-04	6.478E-04	6.924E-04	7.669E-04
2.46E 00--3.01E 00	1.889E-03	1.887E-03	1.879E-03	1.867E-03	1.856E-03	1.859E-03	1.899E-03	2.012E-03	2.244E-03
2.35E 00--2.46E 00	2.937E-03	2.937E-03	2.943E-03	2.970E-03	3.041E-03	3.187E-03	3.442E-03	3.865E-03	4.517E-03
1.83E 00--2.35E 00	4.177E-03	4.187E-03	4.233E-03	4.334E-03	4.511E-03	4.799E-03	5.236E-03	5.875E-03	6.785E-03
1.11E 00--1.83E 00	9.471E-03	9.471E-03	9.503E-03	9.871E-03	1.029E-02	1.092E-02	1.178E-02	1.295E-02	1.452E-02
5.50E 00--1.11E 00	3.045E-02	3.055E-02	3.096E-02	3.177E-02	3.301E-02	3.476E-02	3.713E-02	4.029E-02	4.444E-02
1.11E 01--5.50E 01	9.223E-02	9.243E-02	9.352E-02	9.551E-02	9.841E-02	1.023E-01	1.074E-01	1.136E-01	1.213E-01
3.35E 01--1.11E 01	8.798E-01	8.814E-01	8.878E-01	8.997E-01	9.167E-01	9.391E-01	9.669E-01	1.000E 00	1.038E 00
5.83E 01--3.35E 01	8.464E-01	8.476E-01	8.525E-01	8.615E-01	8.743E-01	8.911E-01	9.115E-01	9.356E-01	9.629E-01
1.03E 01--5.83E 01	5.439E 01	5.439E 01	5.468E 01	5.522E 01	5.598E 01	5.697E 01	5.816E 01	5.957E 01	6.114E 01
2.90E 01--1.03E 01	2.438E 02	2.441E 02	2.453E 02	2.476E 02	2.508E 02	2.549E 02	2.599E 02	2.658E 02	2.723E 02
1.07E 01--2.90E 01	7.395E 02	7.303E 02	7.339E 02	7.405E 02	7.497E 02	7.618E 02	7.763E 02	7.932E 02	8.121E 02
3.06E 01--1.07E 01	2.006E 03	2.008E 03	2.017E 03	2.035E 03	2.059E 03	2.090E 03	2.129E 03	2.173E 03	2.222E 03
1.12E 01--3.06E 01	5.465E 03	5.475E 03	5.499E 03	5.545E 03	5.608E 03	5.691E 03	5.790E 03	5.905E 03	6.033E 03
4.14E 01--1.12E 01	1.215E 04	1.216E 04	1.221E 04	1.231E 04	1.245E 04	1.262E 04	1.283E 04	1.308E 04	1.335E 04
0.0	1.797E 04	1.799E 04	1.806E 04	1.819E 04	1.838E 04	1.861E 04	1.889E 04	1.921E 04	1.956E 04

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.2E 01--1.50E 01	MU=0.0050	MU=0.0016	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	7.611E-06
1.00E 01--1.22E 01	3.329E-08	6.124E-08	7.309E-08	1.239E-07	3.271E-07	1.039E-06	3.263E-06	3.016E-05	7.202E-05
1.00E 01--1.22E 01	5.648E-07	8.896E-07	1.197E-06	1.787E-06	3.816E-06	1.016E-05	2.595E-05	2.695E-04	4.581E-04
8.19E 00--1.00E 01	4.675E-06	6.759E-06	8.894E-06	1.330E-05	2.636E-05	6.445E-05	1.788E-04	1.668E-03	2.312E-03
6.36E 00--8.19E 00	3.591E-05	4.696E-05	6.247E-05	9.610E-05	1.786E-04	3.833E-04	9.333E-04	2.041E-02	8.359E-02
4.97E 00--6.36E 00	2.025E-04	2.547E-04	3.363E-04	4.977E-04	8.300E-04	1.545E-03	3.273E-03	2.701E-02	1.583E-02
4.07E 00--4.97E 00	5.373E-04	6.367E-04	8.228E-04	1.153E-03	1.794E-03	3.061E-03	1.053E-02	4.302E-02	2.762E-02
3.01E 00--4.07E 00	8.868E-04	1.116E-03	1.490E-03	2.175E-03	3.391E-03	5.674E-03	3.089E-02	1.578E-01	8.677E-02
2.46E 00--3.01E 00	2.678E-03	3.345E-03	4.536E-03	6.468E-03	9.885E-03	1.626E-02	5.924E-02	2.938E-01	1.677E-01
2.35E 00--2.46E 00	5.540E-03	7.035E-03	9.489E-03	1.336E-02	1.999E-02	3.207E-02	5.005E-02	1.695E-01	1.674E-01
1.83E 00--2.35E 00	8.105E-03	9.843E-03	1.248E-02	1.621E-02	2.200E-02	3.146E-02	5.005E-02	1.695E-01	1.674E-01
1.11E 00--1.83E 00	1.370E-02	1.929E-02	2.321E-02	2.832E-02	3.585E-02	4.689E-02	6.575E-02	1.391E-01	2.731E-01
5.50E 01--1.11E 00	5.000E-02	5.682E-02	6.825E-02	7.827E-02	9.467E-02	1.171E-01	1.516E-01	2.563E-01	7.493E-01
1.11E 01--5.50E 01	1.254E-01	1.422E-01	1.538E-01	1.696E-01	1.858E-01	2.054E-01	2.259E-01	2.530E-01	1.711E 00
3.35E 01--1.11E 01	1.062E 00	1.139E 00	1.173E 00	1.209E 00	1.279E 00	1.333E 00	1.366E 00	1.394E 00	1.360E 01
5.83E 01--3.35E 01	9.951E-01	1.024E 00	1.059E 00	1.090E 00	1.122E 00	1.148E 00	1.169E 00	1.182E 00	1.244E 01
1.03E 01--5.83E 01	6.286E 01	6.469E 01	6.555E 01	6.838E 01	7.007E 01	7.153E 01	7.264E 01	7.329E 01	7.866E 02
2.90E 01--1.03E 01	2.795E 02	2.869E 02	2.945E 02	3.019E 02	3.087E 02	3.145E 02	3.189E 02	3.215E 02	3.495E 03
1.07E 01--2.90E 01	8.326E 02	8.540E 02	8.757E 02	8.968E 02	9.160E 02	9.345E 02	9.448E 02	9.520E 02	1.041E 04
3.06E 01--1.07E 01	2.275E 03	2.331E 03	2.386E 03	2.440E 03	2.489E 03	2.531E 03	2.562E 03	2.580E 03	2.844E 04
1.12E 01--3.06E 01	6.171E 03	6.314E 03	6.458E 03	6.596E 03	6.721E 03	6.827E 03	6.906E 03	6.952E 03	7.714E 04
4.14E 01--1.12E 01	1.364E 04	1.394E 04	1.425E 04	1.454E 04	1.480E 04	1.502E 04	1.518E 04	1.528E 04	1.705E 05
0.0	1.994E 04	2.034E 04	2.073E 04	2.111E 04	2.145E 04	2.173E 04	2.193E 04	2.205E 04	2.494E 05



## FISSION SOURCE

4 PI R\*\*2 FLUENCE AT 500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01--1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.22E 01--1.50E 01	-2.101E-08	-1.711E-08	-5.212E-09	2.960E-09	1.103E-08	3.424E-09	-3.518E-09	-2.732E-09	5.027E-09
1.00E 01--1.22E 01	-1.384E-07	-1.063E-07	-8.651E-08	5.961E-08	1.281E-07	9.629E-08	4.895E-08	5.594E-08	2.826E-07
8.15E 00--1.00E 01	-2.734E-07	-1.285E-07	2.038E-07	7.206E-07	9.141E-07	8.002E-06	7.842E-07	1.113E-06	2.061E-06
6.36E 00--8.15E 00	4.942E-06	5.084E-06	5.572E-06	6.231E-06	6.910E-06	8.002E-06	1.026E-05	1.436E-05	2.034E-05
4.97E 00--6.36E 00	5.149E-05	5.120E-05	5.045E-05	5.066E-05	5.426E-05	6.313E-05	7.827E-05	9.920E-05	1.246E-04
4.07E 00--4.97E 00	1.996E-04	2.013E-04	2.081E-04	2.201E-04	2.357E-04	2.548E-04	2.778E-04	3.061E-04	3.429E-04
3.01E 00--4.07E 00	4.204E-04	4.204E-04	4.223E-04	4.223E-04	4.268E-04	4.366E-04	4.550E-04	4.870E-04	5.410E-04
2.46E 00--3.01E 00	1.242E-03	1.241E-03	1.238E-03	1.234E-03	1.233E-03	1.245E-03	1.287E-03	1.384E-03	1.569E-03
2.35E 00--2.46E 00	1.957E-03	1.973E-03	1.973E-03	2.013E-03	2.092E-03	2.229E-03	2.451E-03	2.794E-03	3.312E-03
1.83E 00--2.35E 00	3.083E-03	3.123E-03	3.123E-03	3.210E-03	3.355E-03	3.585E-03	3.926E-03	4.420E-03	5.119E-03
1.11E 00--1.83E 00	7.007E-03	7.130E-03	7.130E-03	7.333E-03	7.651E-03	8.116E-03	8.761E-03	9.633E-03	1.079E-02
5.50E 01--1.11E 00	2.342E-02	2.350E-02	2.384E-02	2.449E-02	2.548E-02	2.688E-02	2.877E-02	3.128E-02	3.455E-02
1.11E 01--5.50E 01	7.498E-02	7.519E-02	7.605E-02	7.768E-02	8.006E-02	8.328E-02	8.739E-02	9.250E-02	9.871E-02
3.35E 02--1.11E 01	7.598E-01	7.598E-01	7.655E-01	7.759E-01	7.908E-01	8.105E-01	8.347E-01	8.636E-01	8.970E-01
5.83E 04--3.35E 02	7.441E-01	7.452E-01	7.496E-01	7.577E-01	7.692E-01	7.843E-01	8.026E-01	8.241E-01	8.484E-01
1.01E 04--5.83E 04	4.869E 01	4.876E 01	4.902E 01	4.952E 01	5.022E 01	5.113E 01	5.224E 01	5.354E 01	5.499E 01
2.90E 05--1.01E 04	2.215E 02	2.218E 02	2.229E 02	2.251E 02	2.281E 02	2.320E 02	2.368E 02	2.423E 02	2.485E 02
1.07E 05--2.90E 05	6.701E 02	6.709E 02	6.744E 02	6.807E 02	6.896E 02	7.012E 02	7.152E 02	7.315E 02	7.497E 02
3.06E 06--1.07E 05	1.868E 03	1.870E 03	1.879E 03	1.896E 03	1.920E 03	1.951E 03	1.989E 03	2.033E 03	2.081E 03
1.12E 06--3.06E 06	5.147E 03	5.153E 03	5.178E 03	5.233E 03	5.287E 03	5.370E 03	5.470E 03	5.586E 03	5.715E 03
4.14E 07--1.12E 06	1.155E 04	1.156E 04	1.162E 04	1.172E 04	1.185E 04	1.203E 04	1.225E 04	1.250E 04	1.278E 04
0.0 --4.14E 07	1.727E 04	1.729E 04	1.737E 04	1.751E 04	1.770E 04	1.794E 04	1.823E 04	1.856E 04	1.893E 04
1.22E 01--1.50E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	MU= 1.0000
1.22E 01--1.50E 01	2.386E-08	4.188E-08	5.480E-08	8.837E-08	2.348E-07	7.211E-07	2.202E-06	1.683E-05	4.573E-06
1.00E 01--1.22E 01	4.005E-07	6.293E-07	8.458E-07	1.296E-06	2.801E-06	7.392E-06	2.093E-05	1.577E-04	4.555E-05
8.15E 00--1.00E 01	3.474E-06	4.975E-06	6.632E-06	1.010E-05	2.038E-05	4.969E-05	1.342E-04	1.042E-03	3.089E-04
6.36E 00--8.15E 00	2.760E-05	3.606E-05	4.880E-05	7.646E-05	1.427E-04	3.038E-04	7.209E-04	4.607E-03	1.630E-03
4.97E 00--6.36E 00	1.545E-04	1.940E-04	2.591E-04	3.851E-04	6.426E-04	1.183E-03	2.445E-03	1.257E-02	5.862E-03
4.07E 00--4.97E 00	3.944E-04	4.751E-04	6.126E-04	8.634E-04	1.332E-03	2.241E-03	4.207E-03	1.593E-02	1.095E-02
3.01E 00--4.07E 00	6.326E-04	7.880E-04	1.058E-03	1.524E-03	2.340E-03	3.815E-03	6.807E-03	2.281E-02	1.780E-02
2.46E 00--3.01E 00	1.892E-03	2.429E-03	3.310E-03	4.784E-03	7.332E-03	1.207E-02	2.256E-02	9.900E-02	6.011E-02
2.35E 00--2.46E 00	4.091E-03	5.288E-03	7.168E-03	1.023E-02	1.543E-02	2.499E-02	4.600E-02	2.000E-01	1.231E-01
1.83E 00--2.35E 00	6.098E-03	7.480E-03	9.435E-03	1.228E-02	1.654E-02	2.340E-02	3.621E-02	1.023E-01	1.210E-01
1.11E 00--1.83E 00	1.231E-02	1.436E-02	1.707E-02	2.079E-02	2.592E-02	3.331E-02	4.490E-02	7.966E-02	1.954E-01
5.50E 01--1.11E 00	3.800E-02	4.433E-02	5.146E-02	6.075E-02	7.288E-02	8.907E-02	1.120E-01	1.652E-01	5.720E-01
1.11E 01--5.50E 01	1.063E-01	1.148E-01	1.251E-01	1.365E-01	1.493E-01	1.629E-01	1.766E-01	1.900E-01	1.382E 00
3.35E 02--1.11E 01	9.382E-01	9.732E-01	1.019E 00	1.061E 00	1.105E 00	1.142E 00	1.174E 00	1.192E 00	1.174E 01
5.83E 04--3.35E 02	8.745E-01	9.037E-01	9.325E-01	9.615E-01	9.881E-01	1.011E 00	1.029E 00	1.040E 01	1.095E 01
1.01E 04--5.83E 04	5.658E 01	5.825E 01	5.996E 01	6.163E 01	6.317E 01	6.449E 01	6.549E 01	6.607E 01	7.076E 02
2.90E 05--1.01E 04	2.52E 02	2.623E 02	2.694E 02	2.764E 02	2.828E 02	2.882E 02	2.923E 02	2.947E 02	3.191E 03
1.07E 05--2.90E 05	7.695E 02	7.902E 02	8.112E 02	8.315E 02	8.501E 02	8.658E 02	8.777E 02	8.846E 02	9.620E 03
3.06E 06--1.07E 05	2.134E 03	2.189E 03	2.245E 03	2.298E 03	2.347E 03	2.388E 03	2.419E 03	2.437E 03	2.667E 04
1.12E 06--3.06E 06	5.855E 03	6.000E 03	6.146E 03	6.286E 03	6.414E 03	6.522E 03	6.602E 03	6.649E 03	7.317E 04
4.14E 07--1.12E 06	1.308E 04	1.340E 04	1.371E 04	1.401E 04	1.428E 04	1.451E 04	1.469E 04	1.478E 04	1.635E 05
0.0 --4.14E 07	1.733E 04	1.755E 04	2.017E 04	2.037E 04	2.093E 04	2.122E 04	2.144E 04	2.156E 04	2.417E 05

FISSION SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

4 PI R\*\*2 FLUENCE AT 600.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01--1.50E 01	MU=-1.0000	MU=-0.5894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.00E 01--1.22E 01	-1.208E-08	-9.831E-09	-2.877E-09	2.063E-09	6.549E-09	1.835E-09	-2.147E-09	-1.279E-09	3.930E-09
8.19E 00--1.00E 01	-8.286E-08	-6.335E-08	-3.405E-08	4.014E-08	8.087E-08	5.836E-08	2.785E-08	4.036E-08	1.285E-07
6.36E 00--8.19E 00	-1.739E-07	-7.901E-08	1.485E-07	4.903E-07	6.097E-07	5.664E-07	5.331E-07	7.865E-07	1.473E-06
4.97E 00--6.36E 00	3.524E-06	3.625E-06	3.975E-06	4.458E-06	4.985E-06	5.845E-06	7.571E-06	1.063E-05	1.503E-05
4.07E 00--4.97E 00	3.734E-05	3.717E-05	3.676E-05	3.717E-05	4.005E-05	4.675E-05	5.786E-05	7.304E-05	9.143E-05
3.01E 00--4.07E 00	1.435E-04	1.447E-04	1.494E-04	1.578E-04	1.687E-04	1.822E-04	1.984E-04	2.186E-04	2.451E-04
2.46E 00--3.01E 00	2.888E-04	2.887E-04	2.874E-04	2.893E-04	2.921E-04	2.985E-04	3.110E-04	3.281E-04	3.706E-04
2.35E 00--2.46E 00	1.271E-03	1.275E-03	1.293E-03	1.333E-03	1.403E-03	1.517E-03	1.692E-03	1.955E-03	2.343E-03
1.83E 00--2.35E 00	2.182E-03	2.189E-03	2.225E-03	2.290E-03	2.402E-03	2.575E-03	2.829E-03	3.192E-03	3.705E-03
1.11E 00--1.83E 00	4.950E-03	5.007E-03	5.079E-03	5.225E-03	5.452E-03	5.785E-03	6.245E-03	6.865E-03	7.684E-03
5.50E 01--1.11E 00	1.714E-02	1.720E-02	1.745E-02	1.795E-02	1.869E-02	1.974E-02	2.116E-02	2.304E-02	2.548E-02
3.35E 02--1.11E 01	6.061E-01	6.072E-01	6.117E-01	6.202E-01	6.322E-01	6.481E-01	6.676E-01	6.909E-01	7.177E-01
1.01E 04--3.35E 02	6.029E-01	6.037E-01	6.074E-01	6.140E-01	6.235E-01	6.359E-01	6.509E-01	6.685E-01	6.884E-01
2.90E 05--1.01E 04	3.997E 01	4.003E 01	4.025E 01	4.067E 01	4.125E 01	4.202E 01	4.295E 01	4.403E 01	4.525E 01
2.90E 05--1.01E 04	1.835E 02	1.838E 02	1.848E 02	1.866E 02	1.891E 02	1.925E 02	1.965E 02	2.012E 02	2.064E 02
1.07E 05--2.90E 05	5.594E 02	5.601E 02	5.634E 02	5.685E 02	5.762E 02	5.862E 02	5.982E 02	6.122E 02	6.279E 02
3.06E 06--1.07E 05	1.574E 03	1.576E 03	1.584E 03	1.599E 03	1.620E 03	1.647E 03	1.680E 03	1.718E 03	1.761E 03
1.12E 06--3.06E 06	4.371E 03	4.376E 03	4.398E 03	4.438E 03	4.494E 03	4.568E 03	4.656E 03	4.759E 03	4.873E 03
4.14E 07--1.12E 06	9.878E 03	9.889E 03	9.938E 03	1.003E 04	1.015E 04	1.031E 04	1.051E 04	1.073E 04	1.098E 04
0.0	1.489E 04	1.491E 04	1.497E 04	1.510E 04	1.527E 04	1.549E 04	1.575E 04	1.606E 04	1.639E 04

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01--1.50E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	2.735E-06
1.00E 01--1.22E 01	1.611E-08	2.757E-08	3.642E-08	6.086E-08	1.615E-07	4.854E-07	1.439E-06	9.395E-06	2.862E-05
8.19E 00--1.00E 01	2.746E-07	4.267E-07	5.779E-07	9.050E-07	1.978E-06	5.172E-06	1.431E-05	9.226E-05	2.068E-04
6.36E 00--8.19E 00	2.477E-06	3.545E-06	4.769E-06	7.413E-06	1.517E-05	3.686E-05	9.762E-05	6.509E-04	1.138E-03
4.97E 00--6.36E 00	2.039E-05	2.800E-05	3.674E-05	5.820E-05	1.095E-04	2.315E-04	5.378E-04	2.942E-03	4.052E-03
4.07E 00--4.97E 00	1.133E-04	1.429E-04	1.922E-04	2.870E-04	4.780E-04	8.713E-04	1.761E-03	7.753E-03	7.443E-03
3.01E 00--4.07E 00	2.827E-04	3.416E-04	4.421E-04	6.226E-04	9.539E-04	1.580E-03	2.884E-03	1.218E-02	1.132E-02
2.46E 00--3.01E 00	4.339E-04	5.088E-04	7.223E-04	1.031E-03	1.556E-03	2.479E-03	4.267E-03	6.180E-02	4.078E-02
2.35E 00--2.46E 00	1.308E-03	1.700E-03	2.340E-03	3.406E-03	5.242E-03	8.622E-03	1.591E-02	1.349E-01	8.785E-02
1.83E 00--2.35E 00	2.922E-03	3.808E-03	5.205E-03	7.495E-03	1.142E-02	1.865E-02	3.435E-02	6.195E-02	8.488E-02
1.11E 00--1.83E 00	4.422E-03	5.427E-03	6.848E-03	8.892E-03	1.192E-02	1.669E-02	2.525E-02	4.660E-02	1.354E-01
5.50E 01--1.11E 00	8.763E-03	1.019E-02	1.208E-02	1.461E-02	1.804E-02	2.280E-02	2.981E-02	1.072E-01	4.166E-01
1.11E 01--5.50E 01	2.864E-02	3.272E-02	3.795E-02	4.469E-02	5.333E-02	6.453E-02	7.945E-02	1.393E-01	1.052E 00
3.35E 02--1.11E 01	8.118E-02	8.781E-02	9.540E-02	1.039E-01	1.132E-01	1.227E-01	1.318E-01	1.392E-01	9.387E 00
2.90E 05--3.35E 02	7.471E-01	7.805E-01	8.144E-01	8.493E-01	8.823E-01	9.120E-01	9.351E-01	9.492E-01	8.885E 00
5.82E 04--3.35E 02	7.103E-01	7.332E-01	7.570E-01	7.820E-01	8.017E-01	8.202E-01	8.343E-01	8.426E-01	5.823E 00
1.01E 04--5.82E 04	4.657E 01	4.797E 01	4.935E 01	5.077E 01	5.204E 01	5.313E 01	5.395E 01	5.443E 01	2.652E 02
2.90E 05--1.01E 04	2.122E 02	2.181E 02	2.242E 02	2.301E 02	2.355E 02	2.400E 02	2.435E 02	2.455E 02	2.661E 03
1.07E 05--2.90E 05	6.449E 02	6.627E 02	6.807E 02	6.981E 02	7.140E 02	7.275E 02	7.376E 02	7.453E 02	2.258E 04
3.06E 06--1.07E 05	1.807E 03	1.855E 03	1.903E 03	1.950E 03	1.993E 03	2.029E 03	2.056E 03	2.072E 03	6.244E 04
1.12E 06--3.06E 06	4.997E 03	5.125E 03	5.255E 03	5.380E 03	5.493E 03	5.588E 03	5.660E 03	5.701E 03	1.406E 05
4.14E 07--1.12E 06	1.125E 04	1.153E 04	1.181E 04	1.209E 04	1.233E 04	1.254E 04	1.269E 04	1.278E 04	1.806E 04
0.0	1.675E 04	1.713E 04	1.752E 04	1.788E 04	1.821E 04	1.848E 04	1.868E 04	1.880E 04	2.095E 05

## FISSION SOURCE

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

4 PI R\*2 FLUENCE AT 900.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01--1.50E 01	MU=0.9894	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
1.22E 01--1.50E 01	-1.780E-09	-1.780E-09	-4.74E-10	5.174E-10	1.267E-09	2.993E-10	-3.84E-10	-1.164E-11	1.314E-09
1.50E 01--1.78E 01	-1.286E-08	-1.286E-08	2.158E-10	1.039E-08	1.855E-08	1.256E-08	7.143E-09	1.326E-08	3.810E-08
1.78E 01--2.06E 01	-4.433E-08	-4.433E-08	4.618E-08	1.039E-07	1.662E-07	1.361E-07	1.567E-07	2.505E-07	4.752E-07
2.06E 01--2.34E 01	1.159E-06	1.159E-06	1.309E-06	1.483E-06	1.644E-06	1.844E-06	2.000E-06	2.163E-06	2.326E-06
2.34E 01--2.62E 01	1.286E-05	1.286E-05	1.394E-05	1.516E-05	1.644E-05	1.784E-05	1.924E-05	2.064E-05	2.204E-05
2.62E 01--2.90E 01	4.818E-05	4.818E-05	4.941E-05	5.064E-05	5.187E-05	5.310E-05	5.433E-05	5.556E-05	5.679E-05
2.90E 01--3.18E 01	8.529E-05	8.529E-05	8.533E-05	8.537E-05	8.541E-05	8.545E-05	8.549E-05	8.553E-05	8.557E-05
3.18E 01--3.46E 01	1.991E-04	1.991E-04	2.000E-04	2.018E-04	2.036E-04	2.054E-04	2.072E-04	2.090E-04	2.108E-04
3.46E 01--3.74E 01	3.307E-04	3.307E-04	3.407E-04	3.603E-04	3.908E-04	4.318E-04	4.728E-04	5.138E-04	5.548E-04
3.74E 01--4.02E 01	6.877E-04	6.877E-04	7.037E-04	7.297E-04	7.557E-04	7.817E-04	8.077E-04	8.337E-04	8.597E-04
4.02E 01--4.30E 01	1.568E-03	1.568E-03	1.597E-03	1.643E-03	1.689E-03	1.735E-03	1.781E-03	1.827E-03	1.873E-03
4.30E 01--4.58E 01	5.645E-03	5.645E-03	5.744E-03	5.926E-03	6.108E-03	6.290E-03	6.472E-03	6.654E-03	6.836E-03
4.58E 01--4.86E 01	2.061E-02	2.061E-02	2.092E-02	2.138E-02	2.184E-02	2.230E-02	2.276E-02	2.322E-02	2.368E-02
4.86E 01--5.14E 01	2.370E-01	2.370E-01	2.392E-01	2.414E-01	2.436E-01	2.458E-01	2.480E-01	2.502E-01	2.524E-01
5.14E 01--5.42E 01	2.414E-01	2.414E-01	2.436E-01	2.458E-01	2.480E-01	2.502E-01	2.524E-01	2.546E-01	2.568E-01
5.42E 01--5.70E 01	1.637E-01	1.637E-01	1.659E-01	1.681E-01	1.703E-01	1.725E-01	1.747E-01	1.769E-01	1.791E-01
5.70E 01--5.98E 01	7.632E 01	7.632E 01	7.886E 01	8.140E 01	8.394E 01	8.648E 01	8.902E 01	9.156E 01	9.410E 01
5.98E 01--6.26E 01	2.356E 02	2.356E 02	2.372E 02	2.388E 02	2.404E 02	2.420E 02	2.436E 02	2.452E 02	2.468E 02
6.26E 01--6.54E 01	6.733E 02	6.733E 02	6.778E 02	6.823E 02	6.868E 02	6.913E 02	6.958E 02	7.003E 02	7.048E 02
6.54E 01--6.82E 01	1.893E 03	1.893E 03	1.905E 03	1.923E 03	1.941E 03	1.959E 03	1.977E 03	1.995E 03	2.013E 03
6.82E 01--7.10E 01	4.329E 03	4.329E 03	4.357E 03	4.398E 03	4.439E 03	4.480E 03	4.521E 03	4.562E 03	4.603E 03
7.10E 01--7.38E 01	6.611E 03	6.611E 03	6.652E 03	6.711E 03	6.770E 03	6.829E 03	6.888E 03	6.947E 03	7.006E 03
7.38E 01--7.66E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
7.66E 01--7.94E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
7.94E 01--8.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
8.22E 01--8.50E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
8.50E 01--8.78E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
8.78E 01--9.06E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
9.06E 01--9.34E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
9.34E 01--9.62E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
9.62E 01--9.90E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
9.90E 01--10.18E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
10.18E 01--10.46E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
10.46E 01--10.74E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
10.74E 01--11.02E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
11.02E 01--11.30E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
11.30E 01--11.58E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
11.58E 01--11.86E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
11.86E 01--12.14E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
12.14E 01--12.42E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
12.42E 01--12.70E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
12.70E 01--12.98E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
12.98E 01--13.26E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
13.26E 01--13.54E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
13.54E 01--13.82E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
13.82E 01--14.10E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
14.10E 01--14.38E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
14.38E 01--14.66E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
14.66E 01--14.94E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
14.94E 01--15.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
15.22E 01--15.50E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
15.50E 01--15.78E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
15.78E 01--16.06E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
16.06E 01--16.34E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
16.34E 01--16.62E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
16.62E 01--16.90E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
16.90E 01--17.18E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
17.18E 01--17.46E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
17.46E 01--17.74E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
17.74E 01--18.02E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
18.02E 01--18.30E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
18.30E 01--18.58E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
18.58E 01--18.86E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
18.86E 01--19.14E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
19.14E 01--19.42E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
19.42E 01--19.70E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
19.70E 01--19.98E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
19.98E 01--20.26E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
20.26E 01--20.54E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
20.54E 01--20.82E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
20.82E 01--21.10E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
21.10E 01--21.38E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
21.38E 01--21.66E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
21.66E 01--21.94E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
21.94E 01--22.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
22.22E 01--22.50E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
22.50E 01--22.78E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
22.78E 01--23.06E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
23.06E 01--23.34E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
23.34E 01--23.62E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01	1.22E 01
23.62E 01--23.90E 01	1.22E 01	1.22E 01	1.22E 0						

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	SCALAR
GROUP (MEV)	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	FLUX
1.22E 01	-3.859E-10	-3.123E-10	-7.725E-11	1.085E-10	2.306E-10	5.368E-11	-5.610E-11	1.873E-11	1.154E-07
1.00E 01	-3.400E-09	-2.546E-09	3.905E-09	3.565E-08	4.250E-08	4.074E-08	2.044E-09	3.613E-09	1.666E-06
1.10E 01	-1.141E-08	3.608E-09	1.239E-08	3.565E-08	4.250E-08	4.074E-08	4.322E-08	7.627E-08	1.140E-04
8.15E 00	-8.19E 00	3.508E-07	3.978E-07	4.546E-07	5.285E-07	6.508E-07	8.698E-07	1.226E-06	3.696E-04
4.97E 00	-6.36E 00	4.087E-06	4.102E-06	4.240E-06	4.646E-06	5.427E-06	6.620E-06	8.192E-06	5.068E-04
4.07E 00	-4.97E 00	1.463E-05	1.504E-05	1.576E-05	1.674E-05	1.798E-05	1.952E-05	2.148E-05	3.142E-03
3.01E 00	-4.07E 00	2.351E-05	2.345E-05	2.342E-05	2.354E-05	2.375E-05	2.492E-05	2.666E-05	8.456E-03
2.35E 00	-2.35E 00	4.832E-05	4.836E-05	4.956E-05	5.112E-05	5.401E-05	5.922E-05	6.822E-05	7.350E-03
8.23E 00	-8.23E 00	8.287E-05	8.636E-05	9.295E-05	1.028E-04	1.169E-04	1.369E-04	1.622E-04	3.142E-03
1.951E 04	1.961E-04	2.003E-04	2.003E-04	2.085E-04	2.212E-04	2.398E-04	2.659E-04	3.024E-04	3.529E-04
4.434E-04	4.434E-04	4.499E-04	4.627E-04	4.627E-04	4.828E-04	5.119E-04	5.519E-04	6.052E-04	6.744E-04
1.11E 00	-1.11E 00	1.458E-03	1.698E-03	1.698E-03	1.773E-03	1.879E-03	2.021E-03	2.207E-03	2.445E-03
5.50E 01	-5.50E-01	6.272E-03	6.411E-03	6.411E-03	6.613E-03	6.885E-03	7.231E-03	7.659E-03	8.172E-03
1.11E 01	-1.11E 01	7.500E-02	7.606E-02	7.606E-02	7.758E-02	7.958E-02	8.204E-02	8.496E-02	8.725E-02
3.35E 02	-3.35E-02	7.117E-02	7.804E-02	7.804E-02	7.929E-02	8.091E-02	8.287E-02	8.516E-02	8.774E-02
7.658E-02	7.658E-02	7.669E-02	7.669E-02	7.669E-02	7.669E-02	7.669E-02	7.669E-02	7.669E-02	7.669E-02
5.249E 00	5.249E 00	5.288E 00	5.288E 00	5.345E 00	5.425E 00	5.530E 00	5.657E 00	5.805E 00	5.970E 00
2.466E 01	2.466E 01	2.483E 01	2.483E 01	2.509E 01	2.545E 01	2.592E 01	2.649E 01	2.715E 01	2.789E 01
7.654E 01	7.664E 01	7.708E 01	7.786E 01	7.786E 01	7.898E 01	8.043E 01	8.217E 01	8.421E 01	8.647E 01
2.204E 02	2.207E 02	2.219E 02	2.241E 02	2.241E 02	2.273E 02	2.313E 02	2.363E 02	2.420E 02	2.484E 02
3.06E 08	-3.06E-06	6.273E 02	6.334E 02	6.334E 02	6.422E 02	6.534E 02	6.671E 02	6.839E 02	7.004E 02
6.231E 06	6.231E 06	6.231E 06	6.231E 06	6.231E 06	6.231E 06	6.231E 06	6.231E 06	6.231E 06	6.231E 06
4.14E 07	-4.14E-07	1.435E 03	1.443E 03	1.456E 03	1.476E 03	1.502E 03	1.532E 03	1.568E 03	1.607E 03
2.201E 03	2.204E 03	2.215E 03	2.235E 03	2.235E 03	2.263E 03	2.299E 03	2.341E 03	2.390E 03	2.445E 03
0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GROUP (MEV)	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	FLUX
1.22E 01	-1.50E 01	-1.50E 01	1.287E-07	1.502E-09	1.092E-08	2.971E-08	7.780E-08	2.866E-07	1.154E-07
1.00E 01	-1.22E 01	-1.22E 01	1.287E-07	1.502E-09	1.092E-08	2.971E-08	7.780E-08	2.866E-07	1.154E-07
8.19E 00	-8.19E 00	3.508E-07	3.905E-07	4.752E-07	5.613E-07	6.508E-07	7.445E-07	8.421E-07	9.445E-07
6.36E 00	-6.36E 00	3.218E-06	4.13E-06	5.09E-06	6.13E-06	7.23E-06	8.42E-06	9.67E-06	1.10E-05
4.97E 00	-4.97E 00	1.608E-05	2.21E-05	3.32E-05	5.428E-05	8.42E-05	1.28E-04	2.00E-04	3.00E-04
4.07E 00	-4.07E 00	3.408E-05	4.808E-05	6.08E-05	8.900E-05	1.36E-04	2.18E-04	3.45E-04	5.06E-04
3.01E 00	-3.01E 00	4.211E-05	5.409E-05	7.25E-05	1.005E-04	1.427E-04	2.07E-04	3.34E-04	5.06E-04
2.35E 00	-2.35E 00	4.447E-04	5.05E-04	3.05E-04	4.746E-04	7.43E-04	1.360E-03	3.44E-03	6.78E-03
8.23E 00	-8.23E 00	3.551E-04	5.020E-04	7.53E-04	1.205E-03	2.06E-03	3.89E-03	1.124E-02	8.45E-03
1.951E 04	1.951E-04	5.198E-04	6.542E-04	8.40E-04	1.101E-03	1.473E-03	2.09E-03	3.18E-03	7.350E-03
4.434E-04	4.434E-04	8.801E-04	1.027E-03	1.214E-03	1.444E-03	1.732E-03	2.038E-03	2.374E-03	1.099E-02
1.11E 00	-1.11E 00	3.141E-03	3.627E-03	4.22E-03	4.955E-03	5.801E-03	6.717E-03	7.584E-03	8.465E-03
5.50E 01	-5.50E-01	9.471E-02	1.025E-02	1.109E-02	1.196E-02	1.279E-02	1.349E-02	1.394E-02	1.12E-01
1.11E 01	-1.11E 01	9.597E-02	1.001E-01	1.042E-01	1.081E-01	1.114E-01	1.140E-01	1.155E-01	1.152E-01
3.35E 02	-3.35E-02	9.650E-02	9.650E-02	9.941E-02	1.021E-01	1.043E-01	1.060E-01	1.070E-01	1.131E-01
7.658E-02	7.658E-02	6.337E 00	6.527E 00	6.710E 00	6.877E 00	7.018E 00	7.124E 00	7.185E 00	7.681E 01
5.249E 00	5.249E 00	2.952E 01	3.036E 01	3.117E 01	3.191E 01	3.253E 01	3.299E 01	3.326E 01	3.589E 01
2.466E 01	2.466E 01	9.148E 01	9.405E 01	9.656E 01	9.877E 01	1.007E 02	1.021E 02	1.029E 02	1.111E 03
7.654E 01	7.654E 01	2.624E 02	2.696E 02	2.765E 02	2.828E 02	2.881E 02	2.921E 02	2.943E 02	3.188E 03
2.204E 02	2.204E 02	7.392E 02	7.590E 02	7.780E 02	7.953E 02	8.098E 02	8.205E 02	8.268E 02	8.985E 03
3.06E 08	-3.06E-06	1.12E 06	1.12E 06	1.12E 06	1.12E 06	1.12E 06	1.12E 06	1.12E 06	1.12E 06
6.231E 06	6.231E 06	1.694E 03	1.739E 03	1.782E 03	1.820E 03	1.853E 03	1.877E 03	1.891E 03	2.061E 04
4.14E 07	-4.14E-07	2.566E 03	2.687E 03	2.741E 03	2.785E 03	2.825E 03	2.861E 03	2.895E 03	3.129E 04
2.201E 03	2.201E 03	2.504E 03	2.628E 03	2.687E 03	2.741E 03	2.785E 03	2.825E 03	2.861E 03	3.129E 04
0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## FISSION SOURCE

4 P: R\*\*2 FLUENCE AT 1500.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01---1.50E 01	-6.701E-11	-5.410E-11	-1.255E-11	2.126E-11	4.118E-11	1.029E-11	-6.772E-12	1.153E-11	3.384E-11
1.00E 01---1.22E 01	-6.735E-10	-5.009E-10	9.362E-10	8.845E-09	7.852E-10	5.360E-10	4.995E-10	9.025E-10	2.312E-09
8.19E 00---1.00E 01	-2.957E-09	-1.395E-09	3.382E-09	8.845E-09	1.054E-08	1.033E-08	1.488E-08	1.999E-08	3.796E-08
6.36E 00---8.19E 00	1.015E-07	1.044E-07	1.155E-07	1.335E-07	1.571E-07	1.964E-07	2.666E-07	3.734E-07	5.253E-07
4.97E 00---6.36E 00	1.236E-06	1.236E-06	1.246E-06	1.294E-06	1.422E-06	1.656E-06	2.006E-06	2.465E-06	3.029E-06
4.07E 00---4.97E 00	4.199E-06	4.224E-06	4.336E-06	4.532E-06	4.802E-06	5.149E-06	5.581E-06	6.137E-06	6.893E-06
3.01E 00---4.07E 00	6.292E-06	6.287E-06	6.270E-06	6.259E-06	6.289E-06	6.401E-06	6.508E-06	7.109E-06	7.879E-06
2.46E 00---3.01E 00	1.175E-05	1.178E-05	1.192E-05	1.220E-05	1.269E-05	1.357E-05	1.508E-05	1.761E-05	2.171E-05
2.35E 00---2.46E 00	2.042E-05	2.067E-05	2.170E-05	2.361E-05	2.639E-05	3.033E-05	3.585E-05	4.367E-05	5.480E-05
1.83E 00---2.35E 00	5.235E-05	5.263E-05	5.386E-05	5.624E-05	5.987E-05	6.510E-05	7.237E-05	8.244E-05	9.632E-05
1.11E 00---1.83E 00	1.178E-04	1.182E-04	1.199E-04	1.233E-04	1.286E-04	1.363E-04	1.469E-04	1.609E-04	1.791E-04
5.50E-01---1.11E 00	4.306E-04	4.323E-04	4.394E-04	4.529E-04	4.731E-04	5.016E-04	5.395E-04	5.892E-04	6.531E-04
1.11E-01---5.50E-01	1.685E-03	1.689E-03	1.710E-03	1.748E-03	1.803E-03	1.877E-03	1.971E-03	2.088E-03	2.227E-03
3.35E-02---1.11E-01	2.074E-02	2.078E-02	2.094E-02	2.124E-02	2.166E-02	2.222E-02	2.291E-02	2.372E-02	2.465E-02
5.83E-04---3.35E-02	2.151E-02	2.154E-02	2.168E-02	2.192E-02	2.228E-02	2.273E-02	2.328E-02	2.393E-02	2.465E-02
1.01E-04---5.83E-04	1.483E 00	1.485E 00	1.494E 00	1.510E 00	1.533E 00	1.563E 00	1.599E 00	1.640E 00	1.687E 00
2.90E-05---1.01E-04	6.993E 00	7.003E 00	7.043E 00	7.116E 00	7.219E 00	7.353E 00	7.515E 00	7.703E 00	7.913E 00
1.07E-05---2.90E-05	2.178E 01	2.181E 01	2.193E 01	2.216E 01	2.247E 01	2.289E 01	2.339E 01	2.397E 01	2.461E 01
3.06E-06---1.07E-05	6.294E 01	6.303E 01	6.338E 01	6.403E 01	6.492E 01	6.609E 01	6.751E 01	6.915E 01	7.098E 01
1.12E-06---3.06E-06	1.785E 02	1.787E 02	1.797E 02	1.815E 02	1.840E 02	1.873E 02	1.912E 02	1.957E 02	2.008E 02
4.14E-07---1.12E-06	4.117E 02	4.122E 02	4.145E 02	4.185E 02	4.242E 02	4.315E 02	4.404E 02	4.507E 02	4.622E 02
0.0 ---4.14E-07	6.343E 02	6.351E 02	6.384E 02	6.442E 02	6.524E 02	6.628E 02	6.751E 02	6.893E 02	7.051E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	1.978E-10	3.135E-10	4.754E-10	9.547E-10	2.448E-09	6.423E-09	1.609E-08	5.029E-08	2.278E-08
1.00E 01---1.22E 01	4.374E-09	6.681E-09	9.925E-09	1.803E-08	4.082E-08	9.907E-08	2.389E-07	5.029E-07	3.581E-07
8.19E 00---1.00E 01	6.276E-08	9.178E-08	1.361E-07	2.424E-07	5.238E-07	1.219E-06	2.874E-06	9.342E-06	4.514E-06
6.36E 00---8.19E 00	7.231E-07	1.004E-06	1.506E-06	2.563E-06	4.843E-06	9.630E-06	1.968E-05	5.254E-05	3.402E-05
4.97E 00---6.36E 00	3.755E-06	4.833E-06	6.688E-06	1.001E-05	1.613E-05	2.726E-05	4.792E-05	1.042E-04	1.047E-04
4.07E 00---4.97E 00	8.002E-06	9.727E-06	1.231E-05	1.708E-05	2.444E-05	3.628E-05	5.531E-05	9.282E-05	1.632E-04
3.01E 00---4.07E 00	9.109E-06	1.102E-05	1.330E-05	1.818E-05	2.436E-05	3.313E-05	4.534E-05	6.414E-05	1.657E-04
2.46E 00---3.01E 00	7.820E-05	3.846E-05	5.487E-05	8.172E-05	1.268E-04	2.054E-04	3.539E-04	7.967E-04	8.080E-04
2.35E 00---2.46E 00	7.104E-05	9.603E-05	1.371E-04	2.090E-04	3.409E-04	5.959E-04	1.139E-03	3.066E-03	2.357E-03
1.83E 00---2.35E 00	1.155E-04	1.419E-04	1.733E-04	2.280E-04	2.960E-04	3.895E-04	5.204E-04	7.373E-04	1.956E-03
1.11E 00---1.83E 00	2.025E-04	2.523E-04	2.699E-04	3.165E-04	3.729E-04	4.580E-04	5.070E-04	5.681E-04	2.865E-03
5.50E-01---1.11E 00	7.345E-04	8.369E-04	9.644E-04	1.120E-03	1.305E-03	1.514E-03	1.729E-03	1.908E-03	1.023E-02
1.11E-01---5.50E-01	2.391E-03	2.578E-03	2.787E-03	3.011E-03	3.239E-03	3.455E-03	3.633E-03	3.745E-03	3.058E-02
3.35E-02---1.11E-01	2.568E-02	2.678E-02	2.793E-02	2.904E-02	3.012E-02	3.103E-02	3.173E-02	3.214E-02	3.215E-01
5.83E-04---3.35E-02	2.543E-02	2.626E-02	2.710E-02	2.790E-02	2.864E-02	2.927E-02	2.974E-02	3.001E-02	3.177E-01
1.01E-04---5.83E-04	1.738E 00	1.791E 00	1.844E 00	1.895E 00	1.942E 00	1.982E 00	2.011E 00	2.028E 00	2.170E 01
2.90E-05---1.01E-04	8.140E 00	8.376E 00	8.614E 00	8.842E 00	9.049E 00	9.224E 00	9.353E 00	9.429E 00	1.016E 02
1.07E-05---2.90E-05	2.531E 01	2.604E 01	2.677E 01	2.747E 01	2.811E 01	2.864E 01	2.904E 01	2.927E 01	3.161E 02
3.06E-06---1.07E-05	7.295E 01	7.500E 01	7.706E 01	7.904E 01	8.083E 01	8.233E 01	8.345E 01	8.410E 01	9.109E 02
1.12E-06---3.06E-06	2.063E 02	2.119E 02	2.176E 02	2.231E 02	2.280E 02	2.323E 02	2.352E 02	2.370E 02	2.576E 03
4.14E-07---1.12E-06	4.745E 02	4.873E 02	5.001E 02	5.124E 02	5.235E 02	5.329E 02	5.397E 02	5.437E 02	5.925E 03
0.0 ---4.14E-07	7.223E 02	7.402E 02	7.582E 02	7.754E 02	7.907E 02	8.034E 02	8.126E 02	8.179E 02	5.025E 03

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0950	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0944	ANGLE 4 MU=0.0656	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.0619	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	-1.156E-11	-9.314E-12	-2.034E-12	4.020E-12	7.298E-12	2.033E-12	-5.680E-13	3.485E-12	1.785E-11
1.00E 01--1.22E 01	-1.330E-10	-9.847E-11	-2.007E-12	1.281E-10	1.549E-10	1.254E-10	1.010E-10	2.213E-10	5.327E-10
8.15E 00--1.00E 01	-7.659E-10	-3.845E-10	7.361E-10	2.145E-09	2.568E-09	2.571E-09	2.975E-09	5.321E-09	1.009E-08
6.35E 00--8.15E 00	2.849E-08	2.934E-08	3.259E-08	3.786E-08	4.522E-08	5.723E-08	7.759E-08	1.096E-07	1.544E-07
4.97E 00--6.35E 00	3.617E-07	3.620E-07	3.659E-07	3.814E-07	4.192E-07	4.849E-07	5.864E-07	7.159E-07	8.761E-07
4.07E 00--4.97E 00	1.175E-06	1.182E-06	1.212E-06	1.264E-06	1.337E-06	1.431E-06	1.549E-06	1.703E-06	1.912E-06
3.01E 00--4.07E 00	1.657E-06	1.656E-06	1.651E-06	1.649E-06	1.657E-06	1.687E-06	1.753E-06	1.873E-06	2.072E-06
2.46E 00--3.01E 00	2.905E-06	2.914E-06	2.954E-06	3.035E-06	3.177E-06	3.421E-06	3.833E-06	4.510E-06	5.590E-06
2.35E 00--2.46E 00	5.102E-06	5.170E-06	5.453E-06	5.965E-06	6.701E-06	7.737E-06	9.186E-06	1.124E-05	1.417E-05
1.83E 00--2.35E 00	1.358E-05	1.366E-05	1.401E-05	1.466E-05	1.564E-05	1.706E-05	1.900E-05	2.167E-05	2.533E-05
3.045E-05	3.055E-05	3.055E-05	3.055E-05	3.121E-05	3.321E-05	3.518E-05	3.787E-05	4.146E-05	4.610E-05
1.11E 00--1.83E 00	1.104E-04	1.108E-04	1.126E-04	1.161E-04	1.213E-04	1.286E-04	1.383E-04	1.510E-04	1.673E-04
1.11E 01--1.11E 01	4.352E-04	4.364E-04	4.417E-04	4.514E-04	4.656E-04	4.848E-04	5.090E-04	5.389E-04	5.746E-04
3.35E 02--1.11E 01	5.418E-03	5.428E-03	5.471E-03	5.548E-03	5.660E-03	5.805E-03	5.984E-03	6.196E-03	6.437E-03
5.83E 04--3.35E 02	5.637E-03	5.640E-03	5.681E-03	5.745E-03	5.837E-03	5.955E-03	6.099E-03	6.267E-03	6.456E-03
1.01E 04--5.83E 04	3.904E-01	3.904E-01	3.927E-01	3.969E-01	4.029E-01	4.107E-01	4.201E-01	4.310E-01	4.432E-01
1.842E 00	1.844E 00	1.855E 00	1.874E 00	1.901E 00	1.938E 00	1.938E 00	1.979E 00	2.028E 00	2.083E 00
5.744E 00	5.752E 00	5.785E 00	5.844E 00	5.928E 00	6.037E 00	6.037E 00	6.168E 00	6.321E 00	6.491E 00
1.664E 01	1.666E 01	1.675E 01	1.692E 01	1.716E 01	1.747E 01	1.784E 01	1.828E 01	1.876E 01	1.931E 01
4.725E 01	4.731E 01	4.757E 01	4.804E 01	4.871E 01	4.957E 01	5.061E 01	5.182E 01	5.315E 01	5.456E 01
1.12E 06--1.12E 06	1.092E 02	1.093E 02	1.099E 02	1.109E 02	1.125E 02	1.144E 02	1.168E 02	1.195E 02	1.225E 02
4.14E 07--1.12E 06	1.093E 02	1.093E 02	1.099E 02	1.109E 02	1.125E 02	1.144E 02	1.168E 02	1.195E 02	1.225E 02
0.0	1.694E 02	1.686E 02	1.695E 02	1.711E 02	1.733E 02	1.760E 02	1.793E 02	1.830E 02	1.872E 02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07550	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
1.22E 01--1.50E 01	3.076E-11	6.325E-11	9.985E-11	2.060E-10	5.202E-10	1.325E-09	3.200E-09	8.842E-09	4.412E-08
1.00E 01--1.22E 01	9.833E-10	1.507E-09	2.307E-09	4.309E-09	9.751E-09	2.311E-08	5.47E-08	1.502E-07	7.905E-08
8.15E 00--1.00E 01	1.649E-08	2.472E-08	3.773E-08	6.906E-08	1.498E-07	3.437E-07	7.47E-07	2.267E-06	1.199E-06
6.35E 00--8.15E 00	2.141E-07	3.019E-07	4.615E-07	7.939E-07	1.495E-06	2.928E-06	5.813E-06	1.378E-05	9.906E-06
4.97E 00--6.35E 00	1.086E-06	1.399E-06	1.932E-06	2.887E-06	4.599E-06	7.622E-06	1.297E-05	2.518E-05	2.890E-05
4.07E 00--4.97E 00	2.218E-06	2.691E-06	3.442E-06	4.639E-06	6.521E-06	9.428E-06	1.381E-05	2.097E-05	4.317E-05
3.01E 00--4.07E 00	2.384E-06	2.859E-06	3.556E-06	4.558E-06	5.951E-06	7.822E-06	1.021E-05	1.826E-05	4.103E-05
2.46E 00--3.01E 00	7.269E-06	9.959E-06	1.421E-05	2.114E-05	3.265E-05	5.248E-05	8.877E-05	1.826E-04	2.030E-04
2.35E 00--2.46E 00	1.844E-05	2.504E-05	3.603E-05	5.560E-05	9.218E-05	1.639E-04	3.171E-04	8.140E-04	6.329E-04
1.83E 00--2.35E 00	3.032E-05	3.733E-05	4.681E-05	5.963E-05	9.396E-05	1.929E-04	1.299E-04	1.721E-04	5.048E-04
1.11E 00--1.83E 00	1.880E-04	2.139E-04	2.659E-04	4.847E-04	3.300E-04	8.802E-04	4.303E-04	4.685E-04	2.600E-04
5.05E 01--1.11E 00	6.185E-04	6.642E-04	7.172E-04	7.737E-04	8.309E-04	8.844E-04	9.281E-04	9.553E-04	7.871E-03
3.35E 02--1.11E 01	6.703E-03	6.989E-03	7.284E-03	7.576E-03	7.847E-03	8.082E-03	8.260E-03	8.365E-03	8.390E-02
5.83E 04--3.35E 02	6.660E-03	6.875E-03	7.091E-03	7.301E-03	7.492E-03	7.654E-03	7.774E-03	7.845E-03	8.318E-02
1.01E 04--5.83E 04	4.565E-01	4.703E-01	4.847E-01	4.975E-01	5.097E-01	5.199E-01	5.275E-01	5.320E-01	5.700E 00
2.90E 05--1.01E 04	2.143E 00	2.205E 00	2.267E 00	2.326E 00	2.380E 00	2.426E 00	2.459E 00	2.479E 00	2.675E 01
1.07E 06--2.90E 05	6.674E 00	6.865E 00	7.057E 00	7.240E 00	7.406E 00	7.546E 00	7.659E 00	7.710E 00	8.334E 01
3.06E 06--1.07E 05	1.928E 01	1.982E 01	2.036E 01	2.088E 01	2.135E 01	2.174E 01	2.203E 01	2.220E 01	2.407E 02
1.12E 06--3.06E 06	5.459E 01	5.609E 01	5.759E 01	5.902E 01	6.032E 01	6.141E 01	6.221E 01	6.268E 01	6.817E 02
4.14E 07--1.12E 06	1.258E 02	1.292E 02	1.326E 02	1.358E 02	1.387E 02	1.412E 02	1.430E 02	1.440E 02	1.571E 03
0.0	1.918E 02	1.965E 02	2.013E 02	2.058E 02	2.099E 02	2.132E 02	2.157E 02	2.171E 02	2.396E 03

4 PI R\*2 FLUENCE AT 75.0 METERS

## FISSION SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	2.306E-06	2.311E-06	2.359E-06	2.365E-06	2.416E-06	2.484E-06	2.569E-06	2.673E-06	2.798E-06
6.70E 00---8.00E 00	5.673E-06	5.688E-06	5.740E-06	5.865E-06	6.034E-06	6.255E-06	6.536E-06	6.893E-06	7.347E-06
5.00E 00---6.50E 00	7.129E-05	7.152E-05	7.240E-05	7.405E-05	7.640E-05	7.946E-05	8.338E-05	8.839E-05	9.486E-05
4.00E 00---5.00E 00	2.748E-05	2.767E-05	2.836E-05	2.955E-05	3.108E-05	3.286E-05	3.499E-05	3.774E-05	4.144E-05
3.00E 00---4.00E 00	4.099E-05	4.123E-05	4.211E-05	4.365E-05	4.557E-05	4.786E-05	5.062E-05	5.417E-05	5.892E-05
2.50E 00---3.00E 00	4.916E-05	4.953E-05	5.092E-05	5.340E-05	5.666E-05	6.070E-05	6.583E-05	7.266E-05	8.204E-05
2.00E 00---2.50E 00	6.974E-05	7.027E-05	7.272E-05	7.582E-05	8.049E-05	8.626E-05	9.358E-05	1.034E-04	1.169E-04
1.50E 00---2.00E 00	4.294E-05	4.322E-05	4.428E-05	4.619E-05	4.879E-05	5.211E-05	5.648E-05	6.239E-05	7.045E-05
1.33E 00---1.66E 00	5.573E-05	5.578E-05	5.610E-05	5.705E-05	5.913E-05	6.274E-05	6.818E-05	7.563E-05	8.545E-05
1.00E 00---1.33E 00	3.128E-05	3.089E-05	2.962E-05	2.810E-05	2.754E-05	2.647E-05	2.536E-05	2.425E-05	2.312E-05
8.00E 01---1.00E 00	3.434E-05	3.420E-05	3.385E-05	3.374E-05	3.459E-05	3.671E-05	3.996E-05	4.407E-05	4.918E-05
6.00E 01---8.00E 01	3.871E-05	3.950E-05	4.233E-05	4.683E-05	5.158E-05	5.584E-05	5.984E-05	6.494E-05	7.306E-05
4.00E 01---6.00E 01	1.638E-04	1.645E-04	1.670E-04	1.715E-04	1.776E-04	1.857E-04	1.972E-04	2.143E-04	2.381E-04
3.00E 01---4.00E 01	2.190E-04	2.189E-04	2.194E-04	2.235E-04	2.348E-04	2.533E-04	2.843E-04	3.181E-04	3.524E-04
2.00E 01---3.00E 01	6.103E-04	6.119E-04	6.179E-04	6.275E-04	6.379E-04	6.471E-04	6.548E-04	6.626E-04	6.731E-04
1.00E 01---2.00E 01	1.302E-03	1.303E-03	1.308E-03	1.317E-03	1.331E-03	1.349E-03	1.372E-03	1.401E-03	1.435E-03
5.00E 02---1.00E 01	2.806E-03	2.807E-03	2.814E-03	2.827E-03	2.846E-03	2.871E-03	2.900E-03	2.936E-03	2.976E-03
2.00E 02---5.00E 02	7.624E-04	7.626E-04	7.635E-04	7.652E-04	7.677E-04	7.708E-04	7.747E-04	7.791E-04	7.840E-04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.871E-06	3.045E-06	3.580E-06	3.482E-06	4.016E-06	4.994E-06	6.053E-06	1.249E-05	4.069E-05
6.50E 00---8.00E 00	8.087E-06	8.587E-06	9.889E-06	1.129E-05	1.308E-05	1.573E-05	2.052E-05	2.749E-05	1.249E-04
5.00E 00---6.50E 00	1.057E-04	1.129E-04	1.325E-04	1.540E-04	1.815E-04	2.281E-04	2.870E-04	3.620E-04	1.688E-03
4.00E 00---5.00E 00	4.546E-05	5.580E-05	6.328E-05	7.089E-05	8.097E-05	9.511E-05	1.165E-04	1.461E-04	8.468E-04
3.00E 00---4.00E 00	9.768E-05	1.616E-05	9.484E-05	1.202E-04	1.169E-04	1.591E-04	2.373E-04	3.593E-04	1.180E-03
2.50E 00---3.00E 00	9.208E-05	1.508E-05	1.234E-04	1.543E-04	2.672E-04	3.555E-04	6.155E-04	1.661E-03	1.947E-03
2.00E 00---2.50E 00	1.312E-04	2.314E-04	1.761E-04	2.207E-04	3.858E-04	5.382E-04	8.916E-04	1.333E-03	2.797E-03
1.66E 00---2.00E 00	7.516E-05	1.017E-04	1.197E-04	1.394E-04	2.291E-04	3.326E-04	5.287E-04	1.333E-03	1.637E-03
1.33E 00---1.66E 00	9.576E-05	1.230E-04	1.454E-04	1.705E-04	2.807E-04	4.057E-04	6.334E-04	1.566E-03	1.979E-03
1.00E 00---1.33E 00	4.396E-05	5.158E-05	6.822E-05	8.763E-05	1.215E-04	1.729E-04	2.423E-04	3.750E-04	8.264E-04
8.00E 01---1.00E 00	5.605E-05	6.732E-05	8.720E-05	1.133E-04	1.490E-04	1.949E-04	2.480E-04	3.197E-04	9.805E-04
6.00E 01---8.00E 01	4.885E-05	1.043E-04	1.367E-04	1.636E-04	2.032E-04	2.543E-04	3.075E-04	4.321E-04	1.394E-03
4.00E 01---6.00E 01	2.690E-04	3.517E-04	3.950E-04	4.451E-04	5.032E-04	5.840E-04	5.996E-04	7.529E-04	3.682E-03
3.00E 01---4.00E 01	3.836E-04	4.130E-04	4.41E-04	4.795E-04	5.237E-04	5.840E-04	6.598E-04	7.730E-04	4.772E-03
2.00E 01---3.00E 01	6.884E-04	7.125E-04	7.510E-04	7.967E-04	8.575E-04	9.419E-04	1.057E-03	1.242E-03	9.130E-03
1.00E 01---2.00E 01	1.474E-03	1.521E-03	1.575E-03	1.633E-03	1.697E-03	1.765E-03	1.835E-03	1.900E-03	1.874E-02
5.00E 02---1.00E 01	3.020E-03	3.067E-03	3.117E-03	3.167E-03	3.215E-03	3.259E-03	3.294E-03	3.318E-03	3.791E-02
2.00E 02---5.00E 02	7.894E-04	7.950E-04	8.007E-04	8.062E-04	8.112E-04	8.156E-04	8.189E-04	8.208E-04	9.306E-03

## 4 PI R\*\*2 FLUENCE AT 150.0 METERS

## FISSION SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.7446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	6.638E-06	6.658E-06	6.737E-06	6.889E-06	7.144E-06	7.413E-06	7.791E-06	8.255E-06	8.813E-06
5.00E 00---6.50E 00	1.470E-05	1.476E-05	1.495E-05	1.533E-05	1.589E-05	1.659E-05	1.749E-05	1.861E-05	2.000E-05
3.50E 00---5.00E 00	1.754E-04	1.760E-04	1.786E-04	1.834E-04	1.901E-04	1.988E-04	2.098E-04	2.236E-04	2.408E-04
2.00E 00---3.50E 00	5.574E-05	5.622E-05	5.794E-05	6.085E-05	6.432E-05	6.812E-05	7.251E-05	7.809E-05	8.541E-05
1.50E 00---2.00E 00	9.133E-05	9.196E-05	9.424E-05	9.815E-05	1.030E-04	1.084E-04	1.148E-04	1.229E-04	1.336E-04
1.00E 00---1.50E 00	6.587E-05	6.659E-05	6.923E-05	7.367E-05	7.901E-05	8.505E-05	9.237E-05	1.022E-04	1.159E-04
5.00E 00---1.00E 00	9.102E-05	9.200E-05	9.562E-05	1.017E-04	1.089E-04	1.171E-04	1.271E-04	1.407E-04	1.599E-04
1.50E 00---5.00E-01	6.462E-05	6.515E-05	6.714E-05	7.058E-05	7.499E-05	8.044E-05	8.755E-05	9.729E-05	1.107E-04
1.00E 00---1.50E-01	8.555E-05	8.548E-05	8.550E-05	8.644E-05	8.949E-05	9.558E-05	1.051E-04	1.186E-04	1.343E-04
5.00E-01---1.00E-01	6.807E-05	6.713E-05	6.418E-05	6.094E-05	6.061E-05	6.483E-05	7.314E-05	8.373E-05	9.522E-05
3.00E-01---5.00E-01	7.888E-05	7.360E-05	7.801E-05	7.842E-05	8.167E-05	8.841E-05	9.808E-05	1.098E-04	1.239E-04
2.00E-01---3.00E-01	9.278E-05	9.480E-05	1.020E-04	1.134E-04	1.251E-04	1.355E-04	1.455E-04	1.590E-04	1.814E-04
1.00E-01---2.00E-01	4.204E-04	4.224E-04	4.297E-04	4.426E-04	4.599E-04	4.832E-04	5.169E-04	5.632E-04	6.350E-04
5.00E-02---1.00E-02	5.649E-04	5.652E-04	5.690E-04	5.845E-04	6.209E-04	6.825E-04	7.655E-04	8.595E-04	9.518E-04
2.00E-02---5.00E-02	1.581E-03	1.586E-03	1.601E-03	1.626E-03	1.653E-03	1.676E-03	1.696E-03	1.718E-03	1.748E-03
	3.885E-03	3.899E-03	3.907E-03	3.943E-03	3.995E-03	4.063E-03	4.150E-03	4.256E-03	4.383E-03
	9.258E-03	9.267E-03	9.295E-03	9.362E-03	9.452E-03	9.569E-03	9.713E-03	9.884E-03	1.008E-02
	2.599E-03	2.600E-03	2.605E-03	2.613E-03	2.625E-03	2.640E-03	2.659E-03	2.681E-03	2.706E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.250E-04
6.50E 00---8.00E 00	8.228E-06	1.119E-05	1.054E-05	1.221E-05	1.347E-05	1.445E-05	1.810E-05	2.793E-05	1.250E-04
5.00E 00---6.50E 00	2.429E-05	2.136E-05	2.834E-05	2.766E-05	3.530E-05	4.006E-05	5.846E-05	1.222E-04	3.142E-04
3.50E 00---5.00E 00	7.848E-05	1.264E-04	1.062E-04	1.682E-04	1.693E-04	2.703E-04	4.210E-04	1.750E-03	3.930E-03
2.00E 00---3.50E 00	1.521E-04	1.757E-04	1.833E-04	2.166E-04	2.716E-04	3.548E-04	5.699E-04	1.283E-03	1.603E-03
1.50E 00---2.00E 00	1.583E-04	1.393E-04	1.688E-04	2.388E-04	3.572E-04	5.467E-04	9.332E-04	2.610E-03	2.798E-03
1.00E 00---1.50E 00	2.202E-04	1.915E-04	3.023E-04	3.335E-04	5.029E-04	7.771E-04	1.329E-03	3.684E-03	3.919E-03
5.00E-01---1.00E-01	9.068E-05	1.926E-04	1.455E-04	2.837E-04	3.025E-04	5.442E-04	9.050E-04	2.198E-03	2.592E-03
3.00E-01---5.00E-01	1.089E-04	2.324E-04	1.766E-04	3.485E-04	3.758E-04	6.663E-04	1.073E-03	2.504E-03	3.118E-03
2.00E-01---3.00E-01	9.585E-05	1.385E-04	1.588E-04	2.210E-04	3.141E-04	4.369E-04	6.428E-04	9.587E-04	2.040E-03
1.00E-01---2.00E-01	1.382E-04	1.793E-04	2.234E-04	2.996E-04	4.021E-04	5.230E-04	8.055E-04	8.671E-04	2.547E-03
5.00E-02---1.00E-02	1.947E-04	2.892E-04	3.354E-04	4.332E-04	5.400E-04	6.441E-04	8.062E-04	1.018E-03	3.526E-03
3.00E-02---5.00E-02	7.129E-04	8.324E-04	9.307E-04	1.052E-03	1.181E-03	1.332E-03	1.570E-03	1.925E-03	9.719E-03
2.00E-02---3.00E-02	1.026E-03	1.117E-03	1.182E-03	1.275E-03	1.402E-03	1.552E-03	1.761E-03	2.010E-03	1.275E-02
1.00E-02---2.00E-02	1.781E-03	1.872E-03	1.951E-03	2.073E-03	2.233E-03	2.418E-03	2.696E-03	3.069E-03	2.365E-02
5.00E-03---1.00E-03	4.532E-03	4.705E-03	4.899E-03	5.121E-03	5.360E-03	5.620E-03	5.877E-03	6.123E-03	5.773E-02
2.00E-03---5.00E-03	1.030E-02	1.054E-02	1.079E-02	1.106E-02	1.131E-02	1.156E-02	1.176E-02	1.190E-02	1.295E-01
	2.733E-03	2.761E-03	2.791E-03	2.820E-03	2.847E-03	2.871E-03	2.890E-03	2.901E-03	3.429E-02



## FISSION SOURCE

4 PI R\*2 FLUENCE AT 200.0 METERS

(GAMMA 35/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	9.511E-06	9.545E-06	9.679E-06	9.941E-06	1.033E-05	1.085E-05	1.152E-05	1.236E-05	1.339E-05
6.50E 00---8.00E 00	2.060E-05	2.068E-05	2.100E-05	2.161E-05	2.250E-05	2.367E-05	2.517E-05	2.706E-05	2.941E-05
5.00E 00---6.50E 00	2.424E-04	2.434E-04	2.473E-04	2.548E-04	2.654E-04	2.792E-04	2.968E-04	3.190E-04	3.459E-04
4.00E 00---5.00E 00	7.270E-05	7.337E-05	7.585E-05	7.998E-05	8.490E-05	9.029E-05	9.653E-05	1.046E-04	1.155E-04
3.00E 00---4.00E 00	1.228E-04	1.237E-04	1.271E-04	1.328E-04	1.398E-04	1.479E-04	1.575E-04	1.698E-04	1.840E-04
2.50E 00---3.00E 00	7.092E-05	7.184E-05	7.320E-05	7.503E-05	7.735E-05	8.017E-05	8.398E-05	8.875E-05	9.355E-05
2.00E 00---2.50E 00	9.671E-05	9.792E-05	1.024E-04	1.096E-04	1.180E-04	1.272E-04	1.384E-04	1.519E-04	1.660E-04
1.66E 00---2.00E 00	7.401E-05	7.467E-05	7.713E-05	8.138E-05	8.680E-05	9.355E-05	1.025E-04	1.148E-04	1.319E-04
1.33E 00---1.66E 00	9.858E-05	9.843E-05	9.823E-05	9.915E-05	1.029E-04	1.108E-04	1.235E-04	1.399E-04	1.604E-04
1.00E 00---1.33E 00	8.799E-05	8.681E-05	8.311E-05	7.941E-05	8.006E-05	8.179E-05	1.000E-04	1.160E-04	1.334E-04
8.00E 01---1.00E 00	1.040E-04	1.037E-04	1.034E-04	1.049E-04	1.105E-04	1.213E-04	1.362E-04	1.541E-04	1.759E-04
6.00E 01---8.00E 01	1.258E-04	1.286E-04	1.388E-04	1.547E-04	1.713E-04	1.865E-04	2.018E-04	2.230E-04	2.579E-04
4.00E 01---6.00E 01	5.931E-04	5.960E-04	6.072E-04	6.271E-04	6.542E-04	6.910E-04	7.428E-04	8.197E-04	9.234E-04
3.00E 01---4.00E 01	8.016E-04	8.028E-04	8.111E-04	8.379E-04	8.950E-04	9.875E-04	1.109E-03	1.244E-03	1.376E-03
2.00E 01---3.00E 01	2.257E-03	2.263E-03	2.284E-03	2.318E-03	2.354E-03	2.387E-03	2.417E-03	2.450E-03	2.496E-03
1.00E 01---2.00E 01	5.776E-03	5.784E-03	5.814E-03	5.872E-03	5.956E-03	6.068E-03	6.209E-03	6.381E-03	6.586E-03
5.00E 02---1.00E 01	1.434E-02	1.436E-02	1.451E-02	1.475E-02	1.468E-02	1.489E-02	1.515E-02	1.545E-02	1.580E-02
2.00E 02---5.00E 02	4.084E-02	4.085E-02	4.093E-02	4.108E-02	4.129E-02	4.156E-02	4.189E-02	4.228E-02	4.272E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAP FLUX
8.00E 00---1.00E 01	1.524E-05	1.552E-05	1.630E-05	1.723E-05	2.225E-05	2.515E-05	2.864E-05	3.215E-05	1.956E-04
6.50E 00---8.00E 00	3.100E-05	3.698E-05	3.991E-05	4.607E-05	5.089E-05	6.200E-05	8.080E-05	1.590E-04	4.570E-04
5.00E 00---6.50E 00	3.617E-04	4.423E-04	4.597E-04	5.562E-04	6.171E-04	7.58E-04	1.054E-03	2.210E-03	5.541E-03
4.00E 00---5.00E 00	1.386E-04	1.405E-04	1.788E-04	1.966E-04	2.549E-04	3.304E-04	5.363E-04	1.290E-03	2.130E-03
3.00E 00---4.00E 00	2.149E-04	2.263E-04	2.725E-04	3.029E-04	3.756E-04	4.771E-04	7.310E-04	1.580E-03	3.207E-03
2.50E 00---3.00E 00	1.410E-04	1.943E-04	2.159E-04	2.967E-04	3.863E-04	6.077E-04	1.081E-03	2.913E-03	3.126E-03
2.00E 00---2.50E 00	1.894E-04	2.644E-04	2.928E-04	4.071E-04	5.342E-04	8.508E-04	1.520E-03	4.050E-03	4.303E-03
1.66E 00---2.00E 00	1.747E-04	1.674E-04	2.434E-04	2.800E-04	4.193E-04	6.146E-04	1.097E-03	2.540E-03	3.125E-03
1.33E 00---1.66E 00	2.113E-04	2.009E-04	2.956E-04	3.461E-04	5.221E-04	7.539E-04	1.294E-03	2.842E-03	3.754E-03
1.00E 00---1.33E 00	1.606E-04	1.777E-04	2.395E-04	3.121E-04	4.465E-04	6.213E-04	8.913E-04	1.320E-03	2.476E-03
8.00E 01---1.00E 00	2.091E-04	2.508E-04	3.297E-04	4.331E-04	5.793E-04	7.504E-04	9.586E-04	1.215E-03	3.631E-03
6.00E 01---8.00E 01	3.263E-04	3.828E-04	5.083E-04	6.141E-04	7.733E-04	9.191E-04	1.115E-03	1.783E-03	5.030E-03
4.00E 01---6.00E 01	1.059E-03	1.198E-03	1.646E-03	1.818E-03	1.696E-03	1.897E-03	2.193E-03	2.648E-03	1.599E-02
3.00E 01---4.00E 01	1.498E-03	1.594E-03	1.710E-03	1.832E-03	2.004E-03	2.210E-03	2.470E-03	2.784E-03	1.831E-02
2.00E 01---3.00E 01	2.573E-03	2.657E-03	2.801E-03	2.956E-03	3.168E-03	3.512E-03	3.740E-03	4.177E-03	3.367E-02
1.00E 01---2.00E 01	6.825E-03	7.099E-03	7.609E-03	7.752E-03	8.124E-03	8.514E-03	8.908E-03	9.252E-03	6.684E-02
5.00E 02---1.00E 01	1.619E-02	1.661E-02	1.707E-02	1.753E-02	1.799E-02	1.842E-02	1.895E-02	1.903E-02	2.035E-01
2.00E 02---5.00E 02	4.320E-02	4.370E-02	4.423E-02	4.474E-02	4.522E-02	4.564E-02	4.596E-02	4.616E-02	5.420E-02

## 4 PI R\*2 FLUENCE AT 300.0 METERS

## FISSION SOURCE

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02816	ANGLE 9 MU=0.00950
8.00E 00---1.00E 01	1.350E-05	1.356E-05	1.380E-05	1.427E-05	1.497E-05	1.593E-05	1.720E-05	1.885E-05	2.094E-05
6.50E 00---8.00E 00	2.666E-05	2.880E-05	2.934E-05	3.040E-05	3.194E-05	3.400E-05	3.670E-05	4.020E-05	4.470E-05
5.00E 00---6.50E 00	3.331E-04	3.348E-04	3.413E-04	3.537E-04	3.715E-04	3.950E-04	4.255E-04	4.652E-04	5.164E-04
4.00E 00---5.00E 00	9.387E-05	9.489E-05	9.865E-05	1.049E-04	1.123E-04	1.205E-04	1.304E-04	1.434E-04	1.615E-04
3.00E 00---4.00E 00	1.641E-04	1.655E-04	1.707E-04	1.796E-04	1.905E-04	2.035E-04	2.192E-04	2.401E-04	2.684E-04
2.50E 00---3.00E 00	7.101E-05	7.220E-05	7.654E-05	8.350E-05	9.125E-05	9.947E-05	1.094E-04	1.234E-04	1.440E-04
2.00E 00---2.50E 00	9.534E-05	9.678E-05	1.021E-04	1.105E-04	1.200E-04	1.303E-04	1.431E-04	1.614E-04	1.883E-04
1.66E 00---2.00E 00	4.179E-05	4.254E-05	8.543E-05	9.050E-05	9.722E-05	1.061E-04	1.183E-04	1.357E-04	1.598E-04
1.33E 00---1.66E 00	1.096E-04	1.093E-04	1.087E-04	1.096E-04	1.147E-04	1.258E-04	1.434E-04	1.669E-04	1.960E-04
1.00E 00---1.33E 00	1.112E-04	1.098E-04	1.087E-04	1.021E-04	1.055E-04	1.189E-04	1.399E-04	1.664E-04	1.959E-04
8.00E-01---1.00E 00	1.342E-04	1.342E-04	1.350E-04	1.394E-04	1.504E-04	1.690E-04	1.944E-04	2.256E-04	2.647E-04
6.00E-01---8.00E-01	1.653E-04	1.734E-04	1.883E-04	2.119E-04	2.373E-04	2.645E-04	2.906E-04	3.308E-04	3.945E-04
4.00E-01---6.00E-01	8.670E-04	8.716E-04	8.910E-04	9.259E-04	9.750E-04	1.043E-03	1.139E-03	1.273E-03	1.450E-03
3.00E-01---4.00E-01	1.191E-03	1.195E-03	1.217E-03	1.273E-03	1.376E-03	1.531E-03	1.724E-03	1.934E-03	2.135E-03
2.00E-01---3.00E-01	3.467E-03	3.475E-03	3.504E-03	3.549E-03	3.598E-03	3.645E-03	3.690E-03	3.745E-03	3.824E-03
1.00E-01---2.00E-01	9.217E-03	9.230E-03	9.285E-03	9.391E-03	9.544E-03	9.745E-03	1.000E-02	1.031E-02	1.068E-02
5.00E-02---1.00E-01	2.414E-02	2.417E-02	2.429E-02	2.451E-02	2.482E-02	2.523E-02	2.574E-02	2.634E-02	2.703E-02
2.00E-02---5.00E-02	7.005E-03	7.005E-03	7.024E-03	7.053E-03	7.095E-03	7.148E-03	7.214E-03	7.290E-03	7.376E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.0750	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00---1.00E 01	2.347E-05	2.699E-05	3.080E-05	3.578E-05	4.117E-05	4.753E-05	5.499E-05	7.216E-05	3.275E-04
6.50E 00---8.00E 00	5.069E-05	5.738E-05	6.671E-05	7.712E-05	9.091E-05	1.079E-04	1.356E-04	2.286E-04	7.272E-04
5.00E 00---6.50E 00	5.858E-04	6.603E-04	7.695E-04	8.95E-04	1.056E-03	1.270E-03	1.653E-03	2.990E-03	8.517E-03
4.00E 00---5.00E 00	1.840E-04	2.189E-04	2.554E-04	3.093E-04	3.789E-04	4.969E-04	7.368E-04	1.614E-03	3.004E-03
3.00E 00---4.00E 00	3.040E-04	3.545E-04	4.105E-04	4.878E-04	5.875E-04	7.459E-04	1.049E-03	2.038E-03	4.698E-03
2.50E 00---3.00E 00	1.757E-04	2.098E-04	2.667E-04	3.390E-04	4.634E-04	6.925E-04	1.221E-03	3.151E-03	3.533E-03
2.00E 00---2.50E 00	2.299E-04	2.734E-04	3.488E-04	4.452E-04	6.194E-04	9.358E-04	1.666E-03	4.244E-03	4.697E-03
1.66E 00---2.00E 00	1.872E-04	2.386E-04	2.904E-04	3.865E-04	5.294E-04	7.999E-04	1.336E-03	2.887E-03	3.826E-03
1.33E 00---1.66E 00	2.268E-04	2.878E-04	3.535E-04	4.791E-04	6.611E-04	9.795E-04	1.558E-03	3.139E-03	4.586E-03
1.00E 00---1.33E 00	2.304E-04	2.865E-04	3.690E-04	5.041E-04	6.948E-04	9.592E-04	1.317E-03	1.870E-03	4.309E-03
8.00E-01---1.00E 00	3.186E-04	4.024E-04	5.246E-04	6.971E-04	9.133E-04	1.165E-03	1.441E-03	1.767E-03	5.547E-03
6.00E-01---8.00E-01	4.880E-04	6.286E-04	7.922E-04	9.911E-04	1.197E-03	1.419E-03	1.651E-03	1.954E-03	7.661E-03
4.00E-01---6.00E-01	1.663E-03	1.905E-03	2.149E-03	2.395E-03	2.641E-03	2.920E-03	3.279E-03	3.794E-03	2.164E-02
3.00E-01---4.00E-01	2.512E-03	2.477E-03	2.642E-03	2.842E-03	3.083E-03	3.369E-03	3.682E-03	4.021E-03	2.818E-02
2.00E-01---3.00E-01	3.937E-03	4.100E-03	4.299E-03	4.544E-03	4.821E-03	5.142E-03	5.507E-03	5.937E-03	5.135E-02
1.00E-01---2.00E-01	1.110E-02	1.158E-02	1.212E-02	1.269E-02	1.330E-02	1.391E-02	1.449E-02	1.495E-02	1.495E-01
5.00E-02---1.00E-01	2.781E-02	2.866E-02	2.955E-02	3.048E-02	3.138E-02	3.220E-02	3.288E-02	3.333E-02	3.496E-01
2.00E-02---5.00E-02	7.471E-03	7.570E-03	7.672E-03	7.771E-03	7.863E-03	7.945E-03	8.003E-03	8.039E-03	9.365E-02

## FISSION SOURCE

4 PI R\*\*2 FLUENCE AT 400.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.462E-05	1.469E-05	1.503E-05	1.559E-05	1.647E-05	1.770E-05	1.770E-05	1.934E-05	2.153E-05	2.442E-05
3.076E-05	3.093E-05	3.162E-05	3.294E-05	3.485E-05	3.743E-05	3.743E-05	4.087E-05	4.545E-05	5.132E-05
3.558E-04	3.578E-04	3.659E-04	3.811E-04	4.028E-04	4.318E-04	4.318E-04	4.703E-04	5.212E-04	5.890E-04
9.531E-05	9.787E-05	1.025E-04	1.101E-04	1.189E-04	1.286E-04	1.286E-04	1.403E-04	1.565E-04	1.796E-04
1.725E-04	1.742E-04	1.805E-04	1.912E-04	2.044E-04	2.198E-04	2.198E-04	2.392E-04	2.656E-04	3.026E-04
6.284E-05	6.414E-05	6.890E-05	7.636E-05	8.441E-05	9.283E-05	9.283E-05	1.032E-04	1.185E-04	1.418E-04
8.431E-05	8.573E-05	9.096E-05	9.927E-05	1.085E-04	1.188E-04	1.188E-04	1.320E-04	1.518E-04	1.814E-04
7.862E-05	7.927E-05	8.184E-05	8.661E-05	9.348E-05	1.034E-04	1.034E-04	1.175E-04	1.386E-04	1.672E-04
1.058E-04	1.053E-04	1.041E-04	1.045E-04	1.101E-04	1.231E-04	1.231E-04	1.441E-04	1.722E-04	2.075E-04
1.144E-04	1.129E-04	1.086E-04	1.059E-04	1.175E-04	1.285E-04	1.285E-04	1.557E-04	1.898E-04	2.297E-04
1.383E-04	1.386E-04	1.408E-04	1.479E-04	1.628E-04	1.870E-04	1.870E-04	2.200E-04	2.621E-04	3.176E-04
1.787E-04	1.836E-04	2.016E-04	2.302E-04	2.615E-04	2.945E-04	2.945E-04	3.345E-04	3.938E-04	4.846E-04
1.004E-03	1.010E-03	1.036E-03	1.083E-03	1.152E-03	1.250E-03	1.250E-03	1.387E-03	1.575E-03	1.816E-03
1.405E-03	1.413E-03	1.452E-03	1.540E-03	1.687E-03	1.896E-03	1.896E-03	2.149E-03	2.415E-03	2.867E-03
4.322E-03	4.330E-03	4.361E-03	4.409E-03	4.461E-03	4.512E-03	4.512E-03	4.565E-03	4.636E-03	4.739E-03
1.165E-02	1.167E-02	1.175E-02	1.189E-02	1.210E-02	1.238E-02	1.238E-02	1.276E-02	1.316E-02	1.367E-02
3.160E-02	3.164E-02	3.181E-02	3.213E-02	3.258E-02	3.318E-02	3.318E-02	3.392E-02	3.480E-02	3.581E-02
9.286E-03	9.291E-03	9.314E-03	9.356E-03	9.415E-03	9.493E-03	9.493E-03	9.588E-03	9.698E-03	9.822E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	4.177E-04
2.823E-05	3.317E-05	3.961E-05	4.778E-05	5.787E-05	7.034E-05	8.699E-05	8.311E-05	1.052E-04	9.036E-04
5.932E-05	7.005E-05	8.366E-05	1.012E-04	1.234E-04	1.514E-04	1.721E-03	1.902E-04	2.932E-04	1.036E-02
6.781E-04	7.954E-04	9.465E-04	1.142E-03	1.393E-03	1.721E-03	2.11E-03	2.211E-03	3.636E-03	3.555E-03
2.120E-04	2.546E-04	3.105E-04	3.842E-04	4.871E-04	6.25E-04	8.25E-04	9.257E-04	1.832E-03	5.628E-03
3.528E-04	4.183E-04	5.032E-04	6.138E-04	7.643E-04	9.813E-04	1.239E-03	1.347E-03	2.366E-03	3.667E-03
1.752E-04	2.215E-04	2.837E-04	3.741E-04	5.162E-04	7.669E-04	1.044E-03	1.292E-03	3.111E-03	4.727E-03
2.233E-04	2.813E-04	3.597E-04	4.759E-04	6.626E-04	9.375E-04	1.366E-04	1.704E-03	2.951E-03	4.239E-03
2.079E-04	2.611E-04	3.378E-04	4.514E-04	6.329E-04	8.885E-04	1.339E-03	1.501E-03	2.951E-03	5.066E-03
2.536E-04	3.168E-04	4.139E-04	5.613E-04	7.885E-04	1.139E-03	1.631E-03	1.731E-03	3.146E-03	5.315E-03
2.812E-04	3.576E-04	4.777E-04	6.570E-04	9.052E-04	1.225E-03	1.792E-03	1.631E-03	2.202E-03	6.909E-03
3.969E-04	5.143E-04	6.838E-04	9.102E-04	1.185E-03	1.587E-03	2.123E-03	1.792E-03	2.322E-03	9.549E-03
6.235E-04	8.063E-04	1.030E-03	1.279E-03	1.537E-03	1.792E-03	2.667E-03	2.043E-03	4.530E-03	2.694E-02
2.102E-03	2.413E-03	2.729E-03	3.037E-03	3.342E-03	3.667E-03	4.188E-03	4.050E-03	4.819E-03	3.505E-02
2.892E-03	3.098E-03	3.313E-03	3.563E-03	3.860E-03	4.234E-03	4.888E-03	4.516E-03	4.819E-03	6.359E-02
4.892E-03	5.096E-03	5.353E-03	5.650E-03	5.980E-03	6.344E-03	6.701E-03	6.701E-03	7.065E-03	1.804E-01
1.425E-02	1.490E-02	1.562E-02	1.634E-02	1.716E-02	1.792E-02	1.872E-02	1.860E-02	1.909E-02	4.641E-01
3.694E-02	3.817E-02	3.947E-02	4.079E-02	4.207E-02	4.323E-02	4.416E-02	4.416E-02	4.476E-02	1.248E-01
9.958E-03	1.010E-02	1.025E-02	1.039E-02	1.052E-02	1.063E-02	1.071E-02	1.071E-02	1.076E-02	1.248E-01

## 4 PI R\*2 FLUENCE AT 500.0 METERS

## FISSION SOURCE

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
8.00E 00---1.00E 01	1.358E-05	1.365E-05	1.397E-05	1.458E-05	1.550E-05	1.677E-05	1.849E-05	2.084E-05	2.403E-05
6.50E 00---8.00E 00	2.840E-05	2.858E-05	2.931E-05	3.069E-05	3.266E-05	3.531E-05	3.889E-05	4.375E-05	5.038E-05
5.00E 00---6.50E 00	3.279E-04	3.300E-04	3.384E-04	3.541E-04	3.761E-04	4.037E-04	4.453E-04	4.990E-04	5.722E-04
4.00E 00---5.00E 00	8.618E-05	8.760E-05	9.276E-05	1.010E-04	1.101E-04	1.197E-04	1.312E-04	1.478E-04	1.726E-04
3.00E 00---4.00E 00	1.568E-04	1.586E-04	1.654E-04	1.767E-04	1.901E-04	2.055E-04	2.251E-04	2.528E-04	2.926E-04
2.50E 00---3.00E 00	5.098E-05	5.230E-05	5.707E-05	6.439E-05	7.197E-05	7.969E-05	8.935E-05	1.044E-04	1.282E-04
2.00E 00---2.50E 00	6.949E-05	7.073E-05	7.532E-05	8.258E-05	9.073E-05	1.001E-04	1.125E-04	1.322E-04	1.620E-04
1.66E 00---2.00E 00	6.944E-05	6.982E-05	7.149E-05	7.502E-05	8.108E-05	9.092E-05	1.060E-04	1.280E-04	1.590E-04
1.33E 00---1.66E 00	9.399E-05	9.319E-05	9.103E-05	9.028E-05	9.537E-05	1.088E-04	1.309E-04	1.606E-04	1.983E-04
1.00E 00---1.33E 00	1.047E-04	1.032E-04	9.880E-05	9.630E-05	1.028E-04	1.214E-04	1.509E-04	1.883E-04	2.340E-04
8.00E-01---1.00E 00	1.245E-04	1.251E-04	1.284E-04	1.372E-04	1.540E-04	1.802E-04	2.162E-04	2.645E-04	3.316E-04
6.00E-01---8.00E-01	1.625E-04	1.678E-04	1.873E-04	2.181E-04	2.518E-04	2.895E-04	3.360E-04	4.093E-04	5.248E-04
4.00E-01---6.00E-01	1.015E-03	1.022E-03	1.050E-03	1.104E-03	1.186E-03	1.305E-03	1.473E-03	1.700E-03	1.987E-03
3.00E-01---4.00E-01	1.445E-03	1.457E-03	1.511E-03	1.626E-03	1.809E-03	2.059E-03	2.352E-03	2.654E-03	2.934E-03
2.00E-01---3.00E-01	4.760E-03	4.767E-03	4.798E-03	4.840E-03	4.887E-03	4.932E-03	4.984E-03	5.058E-03	5.174E-03
1.00E-01---2.00E-01	1.288E-02	1.290E-02	1.300E-02	1.317E-02	1.342E-02	1.375E-02	1.417E-02	1.467E-02	1.527E-02
5.00E-02---1.00E-01	3.587E-02	3.592E-02	3.612E-02	3.651E-02	3.706E-02	3.780E-02	3.870E-02	3.977E-02	4.101E-02
2.00E-02---5.00E-02	1.064E-02	1.065E-02	1.067E-02	1.072E-02	1.080E-02	1.089E-02	1.101E-02	1.114E-02	1.129E-02

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.836E-05	3.426E-05	4.232E-05	5.322E-05	6.763E-05	8.573E-05	1.068E-04	1.353E-04	4.537E-04
6.50E 00---8.00E 00	5.542E-05	7.174E-05	8.851E-05	1.113E-04	1.418E-04	1.817E-04	2.344E-04	3.463E-04	9.672E-04
5.00E 00---6.50E 00	6.718E-04	8.065E-04	9.888E-04	1.235E-03	1.568E-03	2.011E-03	2.631E-03	4.102E-03	1.090E-02
4.00E 00---5.00E 00	2.084E-04	2.575E-04	3.238E-04	4.157E-04	5.479E-04	7.459E-04	1.075E-03	1.974E-03	3.735E-03
3.00E 00---4.00E 00	3.485E-04	4.241E-04	5.256E-04	6.645E-04	8.595E-04	1.140E-03	1.571E-03	2.581E-03	5.911E-03
2.50E 00---3.00E 00	1.634E-04	2.128E-04	2.822E-04	3.849E-04	5.466E-04	8.187E-04	1.342E-03	2.959E-03	3.616E-03
2.00E 00---2.50E 00	2.052E-04	2.657E-04	3.514E-04	4.796E-04	6.835E-04	1.030E-03	1.701E-03	3.714E-03	4.544E-03
1.66E 00---2.00E 00	2.022E-04	2.635E-04	3.534E-04	4.897E-04	7.005E-04	1.034E-03	1.601E-03	2.892E-03	4.348E-03
1.33E 00---1.66E 00	2.488E-04	3.231E-04	4.374E-04	6.121E-04	8.705E-04	1.247E-03	1.824E-03	3.024E-03	5.205E-03
1.00E 00---1.33E 00	2.965E-04	3.923E-04	5.414E-04	7.591E-04	1.049E-03	1.405E-03	1.826E-03	2.360E-03	5.834E-03
8.00E-01---1.00E 00	4.304E-04	5.769E-04	7.835E-04	1.051E-03	1.693E-03	2.093E-03	2.307E-03	2.307E-03	7.526E-03
6.00E-01---8.00E-01	6.533E-04	9.149E-04	1.178E-03	1.462E-03	1.748E-03	2.018E-03	2.267E-03	2.508E-03	1.054E-02
4.00E-01---6.00E-01	2.320E-03	2.677E-03	3.035E-03	3.380E-03	3.717E-03	4.066E-03	4.450E-03	4.872E-03	2.945E-02
3.00E-01---4.00E-01	3.182E-03	3.412E-03	3.657E-03	3.937E-03	4.264E-03	4.611E-03	4.938E-03	5.191E-03	3.840E-02
2.00E-01---3.00E-01	5.346E-03	5.579E-03	5.867E-03	6.196E-03	6.552E-03	6.918E-03	7.272E-03	7.576E-03	6.953E-02
1.00E-01---2.00E-01	1.595E-02	1.672E-02	1.756E-02	1.844E-02	1.933E-02	2.017E-02	2.089E-02	2.138E-02	2.018E-01
5.00E-02---1.00E-01	4.239E-02	4.390E-02	4.549E-02	4.709E-02	4.844E-02	5.002E-02	5.115E-02	5.180E-02	5.325E-01
2.00E-02---5.00E-02	1.146E-02	1.163E-02	1.181E-02	1.198E-02	1.213E-02	1.227E-02	1.236E-02	1.242E-02	1.436E-01

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 600.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	1.142E-05	1.149E-05	1.179E-05	1.236E-05	1.319E-05	1.435E-05	1.594E-05	1.813E-05	2.119E-05
6.50E 00---8.00E 00	2.377E-05	2.395E-05	2.465E-05	2.595E-05	2.776E-05	3.017E-05	3.342E-05	3.792E-05	4.424E-05
5.00E 00---6.50E 00	2.744E-04	2.764E-04	2.844E-04	2.990E-04	3.190E-04	3.457E-04	3.815E-04	4.311E-04	5.004E-04
4.00E 00---5.00E 00	6.947E-05	7.098E-05	7.444E-05	8.482E-05	9.342E-05	1.018E-04	1.117E-04	1.266E-04	1.502E-04
3.00E 00---4.00E 00	1.292E-04	1.310E-04	1.379E-04	1.489E-04	1.613E-04	1.749E-04	1.923E-04	2.176E-04	2.555E-04
2.50E 00---3.00E 00	3.860E-05	3.988E-05	4.446E-05	5.127E-05	5.794E-05	6.440E-05	7.262E-05	8.610E-05	1.083E-04
2.00E 00---2.50E 00	5.456E-05	5.554E-05	5.918E-05	6.496E-05	7.157E-05	7.955E-05	9.086E-05	1.086E-04	1.362E-04
1.66E 00---2.00E 00	5.823E-05	5.825E-05	5.868E-05	6.048E-05	6.515E-05	7.420E-05	8.755E-05	1.099E-04	1.396E-04
1.33E 00---1.66E 00	7.935E-05	7.821E-05	7.866E-05	7.253E-05	7.646E-05	8.928E-05	1.107E-04	1.392E-04	1.756E-04
1.00E 00---1.33E 00	8.910E-05	8.751E-05	8.291E-05	6.012E-05	6.639E-05	1.045E-04	1.332E-04	1.700E-04	2.167E-04
6.00E-01---1.00E 00	1.021E-04	1.029E-04	1.070E-04	1.166E-04	1.333E-04	1.584E-04	1.933E-04	2.424E-04	3.150E-04
6.00E-01---8.00E-01	1.330E-04	1.384E-04	1.584E-04	1.892E-04	2.221E-04	2.582E-04	3.076E-04	3.879E-04	5.175E-04
4.00E-01---6.00E-01	9.458E-04	9.458E-04	9.737E-04	1.029E-03	1.115E-03	1.245E-03	1.429E-03	1.678E-03	1.988E-03
3.00E-01---4.00E-01	1.356E-03	1.371E-03	1.436E-03	1.571E-03	1.778E-03	2.051E-03	2.364E-03	2.679E-03	2.966E-03
2.00E-01---3.00E-01	4.825E-03	4.831E-03	4.855E-03	4.892E-03	4.927E-03	4.962E-03	5.003E-03	5.070E-03	5.185E-03
1.00E-01---2.00E-01	1.304E-02	1.307E-02	1.318E-02	1.335E-02	1.362E-02	1.397E-02	1.442E-02	1.496E-02	1.559E-02
5.00E-02---1.00E-01	3.708E-02	3.713E-02	3.736E-02	3.778E-02	3.839E-02	3.918E-02	4.017E-02	4.135E-02	4.270E-02
2.00E-02---5.00E-02	1.108E-02	1.109E-02	1.112E-02	1.117E-02	1.125E-02	1.136E-02	1.148E-02	1.163E-02	1.179E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.546E-05	3.150E-05	4.015E-05	5.244E-05	6.921E-05	9.353E-05	1.226E-04	1.587E-04	4.448E-04
6.50E 00---8.00E 00	5.312E-05	6.561E-05	8.334E-05	1.087E-04	1.450E-04	1.951E-04	2.622E-04	3.831E-04	9.384E-04
5.00E 00---6.50E 00	5.572E-04	7.322E-04	9.220E-04	1.192E-03	1.575E-03	2.111E-03	2.857E-03	4.363E-03	1.042E-02
4.00E 00---5.00E 00	1.854E-04	2.349E-04	3.043E-04	4.052E-04	5.582E-04	7.934E-04	1.168E-03	2.046E-03	3.615E-03
3.00E 00---4.00E 00	3.102E-04	3.864E-04	4.928E-04	6.454E-04	8.708E-04	1.203E-03	1.697E-03	2.684E-03	5.680E-03
2.50E 00---3.00E 00	1.422E-04	1.911E-04	2.626E-04	3.728E-04	5.500E-04	8.422E-04	1.361E-03	2.769E-03	3.423E-03
2.00E 00---2.50E 00	1.770E-04	2.363E-04	3.241E-04	4.599E-04	6.770E-04	1.033E-03	1.667E-03	3.352E-03	4.216E-03
1.66E 00---2.00E 00	1.821E-04	2.454E-04	3.431E-04	4.952E-04	7.288E-04	1.083E-03	1.639E-03	2.752E-03	4.234E-03
1.33E 00---1.66E 00	2.262E-04	3.048E-04	4.303E-04	6.242E-04	9.030E-04	1.295E-03	1.844E-03	2.837E-03	5.067E-03
1.00E 00---1.33E 00	2.842E-04	3.918E-04	5.608E-04	8.046E-04	1.121E-03	1.493E-03	1.906E-03	2.378E-03	5.917E-03
8.00E-01---1.00E 00	4.258E-04	5.913E-04	8.220E-04	1.114E-03	1.446E-03	1.782E-03	2.085E-03	2.343E-03	7.761E-03
6.00E-01---8.00E-01	7.064E-04	9.515E-04	1.236E-03	1.537E-03	1.830E-03	2.098E-03	2.332E-03	2.534E-03	1.073E-02
4.00E-01---6.00E-01	2.543E-03	2.718E-03	3.087E-03	3.440E-03	3.782E-03	4.132E-03	4.501E-03	4.864E-03	2.945E-02
3.00E-01---4.00E-01	3.216E-03	3.447E-03	3.695E-03	3.986E-03	4.320E-03	4.666E-03	4.970E-03	5.188E-03	3.863E-02
2.00E-01---3.00E-01	5.360E-03	5.601E-03	5.898E-03	6.235E-03	6.594E-03	6.954E-03	7.287E-03	7.544E-03	6.987E-02
1.00E-01---2.00E-01	1.632E-02	1.714E-02	1.802E-02	1.896E-02	1.988E-02	2.075E-02	2.147E-02	2.194E-02	2.064E-01
5.00E-02---1.00E-01	4.422E-02	4.587E-02	4.761E-02	4.936E-02	5.104E-02	5.253E-02	5.371E-02	5.442E-02	5.553E-01
2.00E-02---5.00E-02	1.197E-02	1.216E-02	1.235E-02	1.254E-02	1.271E-02	1.285E-02	1.296E-02	1.302E-02	1.500E-01

## FISSION SOURCE

(GAMMAS/NEV/STERADIAN/SOURCE NEUTRON)

4 PI R\*2 FLUENCE AT 900.0 METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.0984	ANGLE 3 MU=0.0946	ANGLE 4 MU=0.0856	ANGLE 5 MU=0.0750	ANGLE 6 MU=0.06179	ANGLE 7 MU=0.04580	ANGLE 8 MU=0.02815	ANGLE 9 MU=0.0050
8.00E 00---1.00E 01	4.806E-06	4.855E-06	5.046E-06	5.379E-06	5.814E-06	6.376E-06	7.147E-06	8.273E-06	9.956E-06
6.50E 00---8.00E 00	9.759E-06	9.901E-06	1.043E-05	1.129E-05	1.228E-05	1.342E-05	1.491E-05	1.716E-05	2.063E-05
5.00E 00---6.50E 00	1.140E-04	1.154E-04	1.208E-04	1.297E-04	1.403E-04	1.528E-04	1.694E-04	1.942E-04	2.318E-04
4.00E 00---5.00E 00	2.278E-05	2.440E-05	2.957E-05	3.745E-05	4.306E-05	4.613E-05	4.879E-05	5.515E-05	6.882E-05
3.00E 00---4.00E 00	4.508E-05	5.079E-05	5.683E-05	6.529E-05	7.248E-05	7.806E-05	8.462E-05	9.668E-05	1.183E-04
2.50E 00---3.00E 00	1.152E-05	1.259E-05	1.626E-05	2.110E-05	2.468E-05	2.654E-05	2.986E-05	3.657E-05	4.566E-05
2.00E 00---2.50E 00	2.247E-05	2.272E-05	2.370E-05	2.535E-05	2.769E-05	3.143E-05	3.767E-05	4.774E-05	6.320E-05
1.66E 00---2.00E 00	3.042E-05	2.949E-05	2.650E-05	2.354E-05	2.413E-05	2.979E-05	4.006E-05	5.350E-05	7.034E-05
1.33E 00---1.66E 00	4.256E-05	4.056E-05	3.410E-05	3.268E-05	3.756E-05	3.635E-05	5.169E-05	6.965E-05	9.028E-05
1.00E 00---1.33E 00	4.458E-05	4.279E-05	3.726E-05	3.268E-05	3.571E-05	4.781E-05	6.662E-05	8.963E-05	1.209E-04
8.00E 01---1.00E 00	3.812E-05	3.931E-05	4.416E-05	5.270E-05	6.391E-05	7.805E-05	9.782E-05	1.310E-04	1.913E-04
6.00E 01---8.00E 01	4.417E-05	4.918E-05	6.708E-05	9.164E-05	1.131E-04	1.340E-04	1.677E-04	2.365E-04	3.604E-04
4.00E 01---6.00E 01	5.541E-04	5.578E-04	5.745E-04	6.116E-04	6.789E-04	7.904E-04	9.576E-04	1.185E-03	1.463E-03
3.00E 01---4.00E 01	8.172E-04	8.332E-04	9.031E-04	1.041E-03	1.245E-03	1.504E-03	1.783E-03	2.045E-03	2.263E-03
2.00E 01---3.00E 01	3.726E-03	3.729E-03	3.736E-03	3.749E-03	3.750E-03	3.743E-03	3.743E-03	3.743E-03	3.832E-03
1.00E 01---2.00E 01	9.871E-03	9.891E-03	9.978E-03	1.013E-02	1.035E-02	1.065E-02	1.102E-02	1.147E-02	1.200E-02
5.00E 02---1.00E 01	2.932E-02	2.937E-02	2.956E-02	2.993E-02	3.046E-02	3.115E-02	3.202E-02	3.305E-02	3.424E-02
2.00E 02---5.00E 02	8.892E-03	8.899E-03	8.925E-03	8.974E-03	9.043E-03	9.133E-03	9.243E-03	9.371E-03	9.516E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.02816	ANGLE 12 MU=0.04580	ANGLE 13 MU=0.06179	ANGLE 14 MU=0.07500	ANGLE 15 MU=0.08656	ANGLE 16 MU=0.09446	ANGLE 17 MU=0.09894	SCALAR FLUX
8.00E 00---1.00E 01	1.248E-05	1.634E-05	2.243E-05	3.251E-05	4.969E-05	7.862E-05	1.231E-04	1.805E-04	2.984E-04
6.50E 00---8.00E 00	2.589E-05	3.380E-05	4.605E-05	6.630E-05	1.008E-04	1.594E-04	2.515E-04	3.934E-04	6.155E-04
5.00E 00---6.50E 00	2.679E-04	3.713E-04	4.987E-04	7.041E-04	1.049E-03	1.627E-03	2.542E-03	4.058E-03	6.518E-03
4.00E 00---5.00E 00	9.140E-05	1.238E-04	1.719E-04	2.517E-04	3.998E-04	6.675E-04	1.113E-03	1.900E-03	2.454E-03
3.00E 00---4.00E 00	1.520E-04	2.006E-04	2.738E-04	3.958E-04	6.106E-04	9.771E-04	1.548E-03	2.428E-03	3.698E-03
2.50E 00---3.00E 00	7.080E-05	1.031E-04	1.562E-04	2.525E-04	4.288E-04	7.330E-04	1.220E-03	2.130E-03	2.419E-03
2.00E 00---2.50E 00	8.697E-05	1.259E-04	1.941E-04	3.162E-04	5.244E-04	8.659E-04	1.367E-03	2.343E-03	2.873E-03
1.66E 00---2.00E 00	9.577E-05	1.421E-04	2.287E-04	3.797E-04	6.190E-04	9.662E-04	1.437E-03	2.110E-03	3.125E-03
1.33E 00---1.66E 00	1.227E-04	1.860E-04	3.043E-04	4.984E-04	7.655E-04	1.134E-03	1.559E-03	2.094E-03	3.739E-03
1.00E 00---1.33E 00	1.754E-04	2.765E-04	4.462E-04	6.918E-04	9.707E-04	1.326E-03	1.638E-03	1.911E-03	4.622E-03
8.00E 01---1.00E 00	2.960E-04	4.600E-04	6.876E-04	9.644E-04	1.259E-03	1.528E-03	1.737E-03	1.872E-03	6.076E-03
6.00E 01---8.00E 01	5.463E-04	7.828E-04	1.044E-03	1.301E-03	1.532E-03	1.725E-03	1.880E-03	1.989E-03	8.370E-03
4.00E 01---6.00E 01	1.769E-03	2.074E-03	2.615E-03	3.261E-03	3.120E-03	3.507E-03	3.507E-03	3.607E-03	2.157E-02
3.00E 01---4.00E 01	2.436E-03	2.592E-03	2.995E-03	3.257E-03	3.257E-03	3.726E-03	3.726E-03	3.849E-03	2.884E-02
2.00E 01---3.00E 01	3.959E-03	4.143E-03	4.736E-03	4.903E-03	5.169E-03	5.402E-03	5.402E-03	5.562E-03	5.211E-02
1.00E 01---2.00E 01	1.261E-02	1.329E-02	1.403E-02	1.480E-02	1.556E-02	1.625E-02	1.681E-02	1.715E-02	1.544E-01
5.00E 02---1.00E 01	3.558E-02	3.704E-02	3.857E-02	4.011E-02	4.157E-02	4.286E-02	4.387E-02	4.447E-02	4.468E-01
2.00E 02---5.00E 02	9.673E-03	9.838E-03	1.000E-02	1.017E-02	1.031E-02	1.044E-02	1.053E-02	1.058E-02	1.212E-01

## FISSION SOURCE

## 4 PI R\*2 FLUENCE AT 1200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	1.476E-06	1.508E-06	1.624E-06	1.800E-06	1.979E-06	2.163E-06	2.400E-06	2.788E-06	3.440E-06
5.00E 00---6.50E 00	2.795E-06	2.902E-06	3.283E-06	3.814E-06	4.260E-06	4.594E-06	4.972E-06	5.596E-06	7.045E-06
4.00E 00---5.00E 00	3.437E-05	3.531E-05	3.871E-05	4.357E-05	4.797E-05	5.179E-05	5.649E-05	6.478E-05	7.943E-05
3.00E 00---4.00E 00	1.698E-06	1.731E-06	1.903E-06	1.350E-05	1.703E-05	1.674E-05	1.526E-05	1.552E-05	2.289E-05
2.50E 00---3.00E 00	1.091E-05	1.231E-05	1.702E-05	2.286E-05	2.638E-05	2.718E-05	2.747E-05	3.093E-05	4.045E-05
2.00E 00---2.50E 00	8.500E-07	1.721E-06	4.398E-06	7.577E-06	9.300E-06	9.240E-06	9.157E-06	1.158E-05	1.776E-05
1.66E 00---2.00E 00	8.644E-06	8.559E-06	8.276E-06	8.007E-06	8.286E-06	9.700E-06	1.268E-05	1.729E-05	2.356E-05
1.33E 00---1.66E 00	1.602E-05	1.482E-05	1.073E-05	6.192E-06	5.174E-06	6.627E-06	1.510E-05	2.179E-05	2.755E-05
1.00E 00---1.33E 00	2.295E-05	2.087E-05	1.374E-05	6.257E-06	5.238E-06	1.099E-05	2.040E-05	2.895E-05	3.551E-05
8.00E-01---1.00E 00	2.065E-05	1.901E-05	1.375E-05	8.871E-06	9.774E-06	1.668E-05	2.649E-05	3.627E-05	4.949E-05
6.00E-01---8.00E-01	7.374E-06	8.507E-06	1.272E-05	1.899E-05	2.499E-05	3.010E-05	3.650E-05	5.153E-05	8.745E-05
4.00E-01---6.00E-01	1.650E-06	5.949E-06	1.553E-05	3.633E-05	4.722E-05	5.330E-05	6.764E-05	1.097E-04	1.900E-04
3.00E-01---4.00E-01	2.656E-04	3.978E-04	4.78E-04	2.893E-04	3.270E-04	3.969E-04	5.081E-04	6.618E-04	8.474E-04
2.00E-01---3.00E-01	3.864E-04	2.252E-03	2.255E-03	5.465E-04	6.918E-04	8.728E-04	1.061E-03	1.227E-03	1.349E-03
1.00E-01---2.00E-01	2.251E-03	5.789E-03	5.841E-03	2.252E-03	2.237E-03	2.212E-03	2.187E-03	2.179E-03	2.204E-03
5.00E-02---1.00E-01	5.776E-03	1.761E-02	1.773E-02	5.937E-03	6.075E-03	6.256E-03	6.482E-03	6.756E-03	7.077E-03
2.00E-02---5.00E-02	1.758E-02	5.373E-03	5.390E-03	1.796E-02	1.829E-02	1.873E-02	1.927E-02	1.991E-02	2.060E-02
	5.369E-03			5.420E-03	5.463E-03	5.519E-03	5.588E-03	5.666E-03	5.758E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	1.572E-04
6.50E 00---8.00E 00	4.484E-06	6.135E-06	8.207E-06	1.406E-05	2.448E-05	4.601E-05	8.753E-05	1.515E-04	1.572E-04
5.00E 00---6.50E 00	9.305E-06	1.271E-05	1.819E-05	2.826E-05	4.884E-05	9.153E-05	1.736E-04	3.108E-04	3.174E-04
4.00E 00---5.00E 00	1.027E-04	1.377E-04	1.933E-04	2.926E-04	4.885E-04	8.439E-04	1.635E-03	2.935E-03	3.176E-03
3.00E 00---4.00E 00	3.439E-05	4.936E-05	6.966E-05	1.092E-04	2.022E-04	4.076E-04	7.944E-04	1.439E-03	1.336E-03
2.50E 00---3.00E 00	5.610E-05	7.739E-05	1.095E-04	1.720E-04	3.070E-04	5.787E-04	1.051E-03	1.747E-03	1.910E-03
2.00E 00---2.50E 00	2.764E-05	4.219E-05	6.866E-05	1.270E-04	2.527E-04	4.918E-04	8.812E-04	1.473E-03	1.428E-03
1.66E 00---2.00E 00	3.283E-05	5.034E-05	8.840E-05	1.687E-04	3.215E-04	5.788E-04	9.612E-04	1.511E-03	1.677E-03
1.33E 00---1.66E 00	3.633E-05	5.930E-05	1.433E-04	2.222E-04	4.316E-04	6.624E-04	9.977E-04	1.390E-03	1.876E-03
1.00E 00---1.33E 00	4.795E-05	9.399E-05	1.653E-04	3.082E-04	5.145E-04	7.700E-04	1.048E-03	1.326E-03	2.242E-03
8.00E-01---1.00E 00	7.962E-05	1.473E-04	2.704E-04	4.516E-04	6.708E-04	8.912E-04	1.075E-03	1.204E-03	2.826E-03
6.00E-01---8.00E-01	1.587E-04	2.761E-04	4.397E-04	6.341E-04	8.295E-04	9.919E-04	1.098E-03	1.150E-03	3.705E-03
4.00E-01---6.00E-01	3.299E-04	4.980E-04	6.755E-04	8.376E-04	9.702E-04	1.073E-03	1.152E-03	1.206E-03	5.076E-03
3.00E-01---4.00E-01	1.044E-03	1.230E-03	1.388E-03	1.521E-03	1.648E-03	1.787E-03	1.938E-03	2.062E-03	1.229E-02
2.00E-01---3.00E-01	1.432E-03	1.503E-03	1.594E-03	1.723E-03	1.878E-03	2.027E-03	2.136E-03	2.192E-03	1.671E-02
1.00E-01---2.00E-01	2.270E-03	2.374E-03	2.506E-03	2.652E-03	2.804E-03	2.953E-03	3.083E-03	3.171E-03	3.018E-02
5.00E-02---1.00E-01	7.447E-03	7.860E-03	8.306E-03	8.770E-03	9.225E-03	9.638E-03	9.967E-03	1.017E-02	9.410E-02
2.00E-02---5.00E-02	2.150E-02	2.241E-02	2.336E-02	2.433E-02	2.524E-02	2.604E-02	2.666E-02	2.703E-02	2.699E-01
	5.856E-03	5.959E-03	6.063E-03	6.163E-03	6.254E-03	6.330E-03	6.387E-03	6.421E-03	7.335E-02

## FISSION SOURCE

( GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

4 PI R\*2 FLUENCE AT 1500.0 METERS

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---1.00E 01	3.434E-07	3.667E-07	4.385E-07	5.364E-07	6.087E-07	6.485E-07	6.870E-07	7.861E-07	1.006E-06
5.00E 00---6.50E 00	4.937E-07	5.731E-07	8.369E-07	1.167E-06	1.372E-06	1.411E-06	1.391E-06	1.536E-06	2.028E-06
4.00E 00---5.00E 00	7.745E-06	8.346E-06	1.043E-05	1.309E-05	1.485E-05	1.552E-05	1.600E-05	1.805E-05	2.313E-05
3.00E 00---4.00E 00	-3.328E-06	-2.155E-06	8.762E-07	5.142E-06	6.470E-06	5.574E-06	3.387E-06	2.835E-06	6.183E-06
2.50E 00---3.00E 00	-4.347E-07	6.527E-07	3.724E-06	7.589E-06	9.343E-06	8.392E-06	7.042E-06	7.625E-06	1.161E-05
2.00E 00---2.50E 00	-1.561E-06	9.313E-07	6.909E-07	2.885E-06	3.427E-06	2.807E-06	2.048E-06	2.779E-06	5.622E-06
1.66E 00---2.00E 00	3.561E-06	3.407E-06	2.851E-06	2.153E-06	1.852E-06	2.378E-06	3.854E-06	5.913E-06	8.007E-06
1.33E 00---1.66E 00	8.889E-06	7.895E-06	3.909E-06	5.855E-07	-1.729E-07	1.672E-06	5.607E-06	8.792E-06	9.622E-06
1.00E 00---1.33E 00	1.287E-05	1.127E-05	4.999E-06	3.398E-08	-7.904E-07	2.281E-06	8.174E-06	1.183E-05	1.197E-05
8.00E-01---1.00E 00	9.963E-06	8.759E-06	4.244E-06	1.138E-06	1.687E-06	4.972E-06	9.983E-06	1.312E-05	1.679E-05
6.00E-01---8.00E-01	-1.687E-06	-7.561E-07	2.164E-06	6.589E-06	9.455E-06	1.065E-05	1.121E-05	1.642E-05	3.483E-05
4.00E-01---6.00E-01	-8.341E-06	-5.359E-06	3.233E-06	1.451E-05	1.851E-05	1.888E-05	2.268E-05	4.473E-05	9.596E-05
3.00E-01---4.00E-01	1.191E-04	1.190E-04	1.198E-04	1.257E-04	1.437E-04	1.816E-04	2.452E-04	3.342E-04	4.407E-04
2.00E-01---3.00E-01	1.660E-04	1.726E-04	2.021E-04	2.607E-04	3.476E-04	4.552E-04	5.640E-04	6.542E-04	7.130E-04
1.00E-01---2.00E-01	1.205E-03	1.206E-03	1.205E-03	1.200E-03	1.185E-03	1.161E-03	1.136E-03	1.121E-03	1.126E-03
5.00E-02---1.00E-01	2.988E-03	2.995E-03	3.023E-03	3.074E-03	3.147E-03	3.242E-03	3.361E-03	3.503E-03	3.670E-03
2.00E-02---5.00E-02	2.817E-03	2.819E-03	2.828E-03	2.844E-03	2.867E-03	2.896E-03	2.932E-03	2.975E-03	3.022E-03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	7.606E-05
6.50E 00---8.00E 00	1.384E-06	1.973E-06	2.963E-06	5.003E-06	9.099E-06	2.232E-05	5.198E-05	1.078E-04	7.606E-05
5.00E 00---6.50E 00	2.907E-06	4.151E-06	6.031E-06	9.856E-06	1.941E-05	4.379E-05	1.008E-04	2.110E-04	1.499E-04
4.00E 00---5.00E 00	3.174E-05	4.409E-05	6.298E-05	1.000E-04	1.811E-04	3.993E-04	8.829E-04	1.829E-03	1.397E-03
3.00E 00---4.00E 00	1.202E-05	1.793E-05	2.376E-05	3.751E-05	8.379E-05	2.098E-04	4.804E-04	9.462E-04	6.634E-04
2.50E 00---3.00E 00	1.855E-05	2.636E-05	3.649E-05	6.124E-05	1.302E-04	2.935E-04	6.085E-04	1.087E-03	9.010E-04
2.00E 00---2.50E 00	9.788E-06	1.486E-05	2.489E-05	5.354E-05	1.271E-04	2.814E-04	5.446E-04	9.134E-04	7.614E-04
1.66E 00---2.00E 00	1.047E-05	1.642E-05	3.408E-05	7.854E-05	1.711E-04	3.345E-04	5.791E-04	8.911E-04	8.810E-04
1.33E 00---1.66E 00	1.057E-05	1.958E-05	4.927E-05	1.140E-04	2.256E-04	3.889E-04	5.944E-04	8.106E-04	1.007E-03
1.00E 00---1.33E 00	1.429E-05	3.161E-05	7.932E-05	1.678E-04	2.959E-04	4.498E-04	6.067E-04	7.426E-04	1.202E-03
8.00E-01---1.00E 00	3.055E-05	6.907E-05	1.444E-04	2.565E-04	3.888E-04	5.127E-04	6.028E-04	6.529E-04	1.524E-03
6.00E-01---8.00E-01	7.620E-05	1.471E-04	2.462E-04	3.612E-04	4.707E-04	5.525E-04	5.953E-04	6.067E-04	1.990E-03
4.00E-01---6.00E-01	1.776E-04	2.786E-04	3.803E-04	4.664E-04	5.299E-04	5.751E-04	6.095E-04	6.337E-04	2.710E-03
3.00E-01---4.00E-01	5.501E-04	7.493E-04	7.218E-04	7.785E-04	8.315E-04	8.959E-04	9.721E-04	1.036E-03	6.234E-03
2.00E-01---3.00E-01	7.449E-04	6.693E-04	8.084E-04	8.729E-04	9.531E-04	1.027E-03	1.074E-03	1.093E-03	8.579E-03
1.00E-01---2.00E-01	1.156E-03	1.207E-03	1.271E-03	1.342E-03	1.414E-03	1.486E-03	1.550E-03	1.593E-03	1.550E-02
5.00E-02---1.00E-01	3.862E-03	4.075E-03	4.308E-03	4.542E-03	4.744E-03	4.985E-03	5.149E-03	5.249E-03	4.875E-02
2.00E-02---5.00E-02	1.127E-02	1.175E-02	1.225E-02	1.276E-02	1.324E-02	1.365E-02	1.397E-02	1.417E-02	1.417E-02
	3.073E-03	3.127E-03	3.182E-03	3.234E-03	3.281E-03	3.321E-03	3.351E-03	3.368E-03	3.849E-02



## 4 PI R\*2 FLUENCE AT 1800.0 METERS

## FISSION SOURCE

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	3.808E-08	5.250E-08	9.848E-08	1.553E-07	1.831E-07	1.861E-07	1.717E-07	1.872E-07	2.617E-07
6.50E 00---8.00E 00	-6.739E-08	-8.411E-09	1.481E-07	3.691E-07	4.554E-07	4.164E-07	3.271E-07	3.155E-07	5.067E-07
5.00E 00---6.50E 00	7.881E-07	1.162E-06	2.364E-06	3.816E-06	4.582E-06	4.421E-06	3.947E-06	4.231E-06	6.046E-06
4.00E 00---5.00E 00	-3.143E-06	-2.425E-06	-1.616E-07	1.559E-06	3.021E-06	2.533E-06	1.375E-07	4.697E-08	1.421E-06
3.00E 00---4.00E 00	-2.173E-06	-1.456E-06	3.398E-07	2.743E-06	3.300E-06	2.533E-06	9.358E-07	1.311E-06	3.105E-06
2.50E 00---3.00E 00	-1.446E-06	-1.073E-06	2.160E-08	1.043E-06	1.344E-06	5.859E-07	1.263E-07	4.987E-07	1.782E-06
2.00E 00---2.50E 00	1.638E-06	1.512E-06	1.052E-06	3.865E-07	1.585E-07	4.055E-07	1.142E-06	2.120E-06	2.731E-06
1.66E 00---2.00E 00	4.568E-06	4.302E-06	1.708E-06	-5.494E-07	-1.140E-06	5.645E-08	2.320E-06	3.667E-06	3.205E-06
1.33E 00---1.66E 00	7.190E-06	6.144E-06	2.168E-06	-1.133E-06	-1.710E-06	1.624E-07	3.626E-06	5.079E-06	3.611E-06
1.00E 00---1.33E 00	4.990E-06	4.231E-06	1.469E-06	-5.312E-07	-3.298E-07	1.406E-06	3.946E-06	4.579E-06	4.841E-06
8.00E-01---1.00E 00	-2.764E-06	-2.145E-06	-8.544E-08	2.033E-06	4.070E-06	3.680E-06	2.835E-06	4.143E-06	1.304E-05
6.00E-01---8.00E-01	-7.503E-06	-5.696E-06	1.048E-07	5.154E-06	8.195E-06	5.965E-06	6.670E-06	1.718E-05	4.525E-05
4.00E-01---6.00E-01	5.298E-05	5.265E-05	5.200E-05	5.353E-05	6.162E-05	8.076E-05	1.142E-04	1.616E-04	2.177E-04
3.00E-01---4.00E-01	6.946E-05	7.294E-05	8.863E-05	1.201E-04	1.673E-04	2.254E-04	2.829E-04	3.281E-04	3.540E-04
2.00E-01---3.00E-01	6.055E-04	6.056E-04	6.045E-04	6.006E-04	5.901E-04	5.740E-04	5.566E-04	5.444E-04	5.439E-04
1.00E-01---2.00E-01	1.455E-03	1.458E-03	1.472E-03	1.498E-03	1.534E-03	1.580E-03	1.638E-03	1.706E-03	1.767E-03
5.00E-02---1.00E-01	4.503E-03	4.511E-03	4.543E-03	4.602E-03	4.686E-03	4.798E-03	4.936E-03	5.102E-03	5.292E-03
2.00E-02---5.00E-02	1.377E-03	1.378E-03	1.382E-03	1.390E-03	1.401E-03	1.415E-03	1.433E-03	1.453E-03	1.476E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	4.009E-07	5.962E-07	8.926E-07	1.562E-06	3.545E-06	9.725E-06	2.785E-05	6.940E-05	3.607E-05
6.50E 00---8.00E 00	8.721E-07	1.310E-06	1.817E-06	2.963E-06	6.773E-06	1.892E-05	5.311E-05	1.303E-04	6.922E-05
5.00E 00---6.50E 00	9.277E-06	1.333E-05	1.858E-05	2.984E-05	6.321E-05	1.624E-04	4.312E-04	1.037E-03	5.937E-04
4.00E 00---5.00E 00	4.409E-06	6.728E-06	7.267E-06	1.019E-05	3.025E-05	9.845E-05	2.631E-04	5.644E-04	3.182E-04
3.00E 00---4.00E 00	6.281E-06	8.795E-06	1.072E-05	1.862E-05	5.040E-05	1.380E-04	3.223E-04	6.150E-04	4.121E-04
2.50E 00---3.00E 00	3.520E-06	4.847E-06	7.735E-06	2.026E-05	5.885E-05	1.470E-04	3.038E-04	5.186E-04	3.833E-04
2.00E 00---2.50E 00	2.924E-06	4.345E-06	1.178E-05	3.428E-05	8.477E-05	1.773E-04	3.174E-04	4.844E-04	4.410E-04
1.66E 00---2.00E 00	2.018E-06	4.961E-06	1.984E-05	5.514E-05	1.174E-04	2.084E-04	3.211E-04	4.328E-04	5.076E-04
1.33E 00---1.66E 00	2.725E-06	1.045E-05	3.622E-05	8.582E-05	1.571E-04	2.400E-04	3.196E-04	3.816E-04	6.050E-04
1.00E 00---1.33E 00	1.058E-05	3.031E-05	7.261E-05	1.352E-04	2.068E-04	2.692E-04	3.078E-04	3.226E-04	7.678E-04
8.00E-01---1.00E 00	3.515E-05	7.407E-05	1.282E-04	1.897E-04	2.452E-04	2.821E-04	2.954E-04	2.932E-04	9.984E-04
6.00E-01---8.00E-01	9.029E-05	1.452E-04	1.980E-04	2.394E-04	2.665E-04	2.840E-04	2.977E-04	3.084E-04	1.352E-03
4.00E-01---6.00E-01	2.735E-04	3.200E-04	3.526E-04	3.740E-04	3.939E-04	4.219E-04	4.583E-04	4.901E-04	2.994E-03
3.00E-01---4.00E-01	3.641E-04	3.703E-04	3.859E-04	4.165E-04	4.554E-04	4.889E-04	5.068E-04	5.111E-04	4.154E-03
2.00E-01---3.00E-01	5.563E-04	5.797E-04	6.090E-04	6.405E-04	6.722E-04	7.040E-04	7.332E-04	7.535E-04	7.504E-03
1.00E-01---2.00E-01	1.878E-03	1.980E-03	2.089E-03	2.201E-03	2.310E-03	2.407E-03	2.484E-03	2.531E-03	2.368E-02
5.00E-02---1.00E-01	5.505E-03	5.736E-03	5.977E-03	6.218E-03	6.445E-03	6.643E-03	6.795E-03	6.885E-03	6.906E-02
2.00E-02---5.00E-02	1.501E-03	1.527E-03	1.553E-03	1.578E-03	1.600E-03	1.620E-03	1.634E-03	1.642E-03	1.879E-02

## FISSION SOURCE

4 PI R\*\*2 HENDERSCH DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	9.761E-11	1.166E-10	1.425E-10	1.544E-10	1.559E-10
-9.89401E-01	9.777E-11	1.168E-10	1.428E-10	1.548E-10	1.563E-10
-9.44575E-01	9.843E-11	1.177E-10	1.440E-10	1.562E-10	1.578E-10
-8.55631E-01	9.985E-11	1.195E-10	1.465E-10	1.592E-10	1.610E-10
-7.55044E-01	1.022E-10	1.226E-10	1.506E-10	1.639E-10	1.659E-10
-6.17876E-01	1.060E-10	1.272E-10	1.566E-10	1.707E-10	1.731E-10
-4.58017E-01	1.115E-10	1.339E-10	1.652E-10	1.803E-10	1.830E-10
-2.81605E-01	1.194E-10	1.434E-10	1.771E-10	1.935E-10	1.965E-10
-9.50125E-02	1.305E-10	1.567E-10	1.935E-10	2.113E-10	2.146E-10
9.50125E-02	1.760E-10	1.899E-10	2.074E-10	2.386E-10	2.417E-10
2.81605E-01	1.790E-10	1.997E-10	2.502E-10	2.643E-10	2.677E-10
4.58017E-01	1.922E-10	2.271E-10	2.839E-10	3.174E-10	3.198E-10
6.17876E-01	2.445E-10	3.268E-10	3.757E-10	3.777E-10	3.778E-10
7.55044E-01	3.518E-10	3.577E-10	4.257E-10	4.863E-10	4.814E-10
8.55631E-01	5.214E-10	5.869E-10	6.772E-10	6.803E-10	6.396E-10
9.44575E-01	1.132E-09	1.089E-09	1.050E-09	1.046E-09	9.765E-10
9.89401E-01	9.810E-09	8.511E-09	6.515E-09	5.017E-09	3.879E-09
TOTAL	4.258E-09	4.359E-09	4.492E-09	4.457E-09	4.246E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.003E-10	7.478E-11	2.577E-11	7.593E-12	2.059E-12
-9.89401E-01	1.006E-10	7.499E-11	2.584E-11	7.616E-12	2.066E-12
-9.44575E-01	1.018E-10	7.590E-11	2.617E-11	7.715E-12	2.093E-12
-8.55631E-01	1.041E-10	7.765E-11	2.680E-11	7.903E-12	2.144E-12
-7.55044E-01	1.076E-10	8.031E-11	2.774E-11	8.184E-12	2.221E-12
-6.17876E-01	1.125E-10	8.407E-11	2.907E-11	8.579E-12	2.328E-12
-4.58017E-01	1.193E-10	8.914E-11	3.083E-11	9.102E-12	2.471E-12
-2.81605E-01	1.282E-10	9.584E-11	3.315E-11	9.783E-12	2.655E-12
-9.50125E-02	1.399E-10	1.045E-10	3.612E-11	1.065E-11	2.890E-12
9.50125E-02	1.552E-10	1.158E-10	3.992E-11	1.176E-11	3.187E-12
2.81605E-01	1.750E-10	1.304E-10	4.478E-11	1.316E-11	3.563E-12
4.58017E-01	2.015E-10	1.496E-10	5.107E-11	1.495E-11	4.040E-12
6.17876E-01	2.375E-10	1.755E-10	5.931E-11	1.727E-11	4.651E-12
7.55044E-01	2.866E-10	2.115E-10	7.037E-11	2.032E-11	5.445E-12
8.55631E-01	3.656E-10	2.645E-10	8.584E-11	2.445E-11	6.504E-12
9.44575E-01	4.999E-10	3.531E-10	1.096E-10	3.048E-11	7.999E-12
9.89401E-01	1.150E-09	7.200E-10	1.800E-10	4.499E-11	1.112E-11
TOTAL	2.409E-09	1.756E-09	5.824E-10	1.684E-10	4.522E-11

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

50.0

## FISSION SOURCE

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	10.	150.0	200.0	250.0	300.0
-1.00000E 00	1.667E-10	2.05E-10	2.661E-10	3.022E-10	3.173E-10	3.166E-10
-9.89401E-01	1.670E-10	2.063E-10	2.666E-10	3.028E-10	3.180E-10	3.173E-10
-9.44575E-01	1.681E-10	2.078E-10	2.688E-10	3.054E-10	3.209E-10	3.203E-10
-8.65631E-01	1.705E-10	2.109E-10	2.732E-10	3.106E-10	3.266E-10	3.261E-10
-7.55044E-01	1.744E-10	2.160E-10	2.801E-10	3.180E-10	3.353E-10	3.349E-10
-6.17876E-01	1.804E-10	2.236E-10	2.903E-10	3.305E-10	3.478E-10	3.475E-10
-4.58017E-01	1.892E-10	2.345E-10	3.045E-10	3.468E-10	3.649E-10	3.646E-10
-2.81605E-01	2.017E-10	2.497E-10	3.241E-10	3.688E-10	3.878E-10	3.872E-10
-9.50125E-02	2.191E-10	2.707E-10	3.504E-10	3.979E-10	4.178E-10	4.167E-10
9.50125E-02	2.867E-10	3.268E-10	3.785E-10	4.380E-10	4.575E-10	4.572E-10
2.81605E-01	2.939E-10	3.356E-10	4.363E-10	4.855E-10	5.070E-10	5.046E-10
4.58017E-01	3.132E-10	3.772E-10	4.924E-10	5.634E-10	5.835E-10	5.727E-10
6.17876E-01	3.919E-10	5.337E-10	6.343E-10	6.594E-10	6.770E-10	6.656E-10
7.55044E-01	5.539E-10	5.712E-10	6.996E-10	8.196E-10	8.300E-10	8.012E-10
8.65631E-01	7.977E-10	9.156E-10	1.082E-09	1.078E-09	1.066E-09	1.016E-09
9.44575E-01	1.662E-09	1.630E-09	1.609E-09	1.633E-09	1.552E-09	1.428E-09
9.89401E-01	1.395E-08	1.210E-08	9.292E-09	7.195E-09	5.606E-09	4.408E-09
TOTAL	6.516E-09	6.852E-09	7.399E-09	7.632E-09	7.528E-09	7.194E-09

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	2.327E-10	1.793E-10	6.592E-11	2.010E-11	5.544E-12	1.443E-12
-9.89401E-01	2.333E-10	1.798E-10	6.608E-11	2.015E-11	5.557E-12	1.447E-12
-9.44575E-01	2.356E-10	1.816E-10	6.675E-11	2.035E-11	5.614E-12	1.462E-12
-8.65631E-01	2.400E-10	1.850E-10	6.802E-11	2.074E-11	5.721E-12	1.490E-12
-7.55044E-01	2.466E-10	1.901E-10	6.991E-11	2.131E-11	5.879E-12	1.531E-12
-6.17876E-01	2.559E-10	1.973E-10	7.251E-11	2.210E-11	6.096E-12	1.587E-12
-4.58017E-01	2.683E-10	2.067E-10	7.592E-11	2.313E-11	6.376E-12	1.660E-12
-2.81605E-01	2.843E-10	2.189E-10	8.027E-11	2.443E-11	6.732E-12	1.752E-12
-9.50125E-02	3.049E-10	2.344E-10	8.573E-11	2.605E-11	7.174E-12	1.866E-12
9.50125E-02	3.312E-10	2.540E-10	9.253E-11	2.806E-11	7.717E-12	2.006E-12
2.81605E-01	3.641E-10	2.788E-10	1.010E-10	3.053E-11	8.382E-12	2.177E-12
4.58017E-01	4.074E-10	3.104E-10	1.115E-10	3.358E-11	9.198E-12	2.386E-12
6.17876E-01	4.644E-10	3.518E-10	1.250E-10	3.739E-11	1.021E-11	2.643E-12
7.55044E-01	5.430E-10	4.075E-10	1.423E-10	4.222E-11	1.147E-11	2.962E-12
8.65631E-01	6.581E-10	4.870E-10	1.658E-10	4.852E-11	1.309E-11	3.366E-12
9.44575E-01	8.527E-10	6.156E-10	2.003E-10	5.733E-11	1.528E-11	3.903E-12
9.89401E-01	1.755E-09	1.124E-09	2.980E-10	7.753E-11	1.964E-11	4.872E-12
TOTAL	4.817E-09	3.622E-09	1.278E-09	3.819E-10	1.042E-10	2.699E-11

## FISSION SOURCE

4 PI R\*\*2 TISSUE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/SOURCE NEUTRON)

COSINE	RANGE (METERS)						FISSION SOURCE
	75.0	100.0	150.0	200.0	250.0	300.0	
-1.00000E 00	1.056E-08	1.274E-08	1.579E-08	1.731E-08	1.764E-08	1.715E-08	1.476E-08
-9.89401E-01	1.058E-08	1.276E-08	1.582E-08	1.735E-08	1.768E-08	1.720E-08	1.480E-08
-9.44575E-01	1.065E-08	1.285E-08	1.596E-08	1.751E-08	1.786E-08	1.737E-08	1.496E-08
-8.65631E-01	1.081E-08	1.306E-08	1.623E-08	1.784E-08	1.821E-08	1.772E-08	1.527E-08
-7.55044E-01	1.106E-08	1.338E-08	1.668E-08	1.835E-08	1.875E-08	1.826E-08	1.576E-08
-6.17876E-01	1.146E-08	1.388E-08	1.733E-08	1.909E-08	1.953E-08	1.904E-08	1.644E-08
-4.58017E-01	1.205E-08	1.460E-08	1.825E-08	2.013E-08	2.061E-08	2.010E-08	1.737E-08
-2.81605E-01	1.288E-08	1.561E-08	1.953E-08	2.155E-08	2.206E-08	2.153E-08	1.860E-08
-9.50125E-02	1.405E-08	1.701E-08	2.127E-08	2.345E-08	2.399E-08	2.341E-08	2.021E-08
9.50125E-02	1.871E-08	2.071E-08	2.319E-08	2.605E-08	2.655E-08	2.604E-08	2.223E-08
2.81605E-01	1.913E-08	2.140E-08	2.697E-08	2.926E-08	2.987E-08	2.912E-08	2.509E-08
4.58017E-01	2.047E-08	2.437E-08	3.086E-08	3.444E-08	3.491E-08	3.364E-08	2.869E-08
6.17876E-01	2.593E-08	3.474E-08	4.028E-08	4.101E-08	4.129E-08	3.988E-08	3.377E-08
7.55044E-01	3.707E-08	3.778E-08	4.532E-08	5.198E-08	5.172E-08	4.915E-08	4.096E-08
8.65631E-01	5.427E-08	6.152E-08	7.133E-08	7.000E-08	6.815E-08	6.403E-08	5.213E-08
9.44575E-01	1.161E-07	1.124E-07	1.092E-07	1.091E-07	1.023E-07	9.304E-08	7.239E-08
9.89401E-01	9.963E-07	8.641E-07	6.621E-07	5.108E-07	3.958E-07	3.091E-07	1.907E-07
TOTAL	4.434E-07	4.577E-07	4.781E-07	4.789E-07	4.603E-07	4.300E-07	3.507E-07

COSINE	RANGE (METERS)						FISSION SOURCE
	500.0	600.0	900.0	1200.0	1500.0	1800.0	
-1.00000E 00	1.170E-08	8.791E-09	3.075E-09	9.133E-10	2.486E-10	6.437E-11	
-9.89401E-01	1.173E-08	8.815E-09	3.084E-09	9.159E-10	2.493E-10	6.456E-11	
-9.44575E-01	1.187E-08	8.918E-09	3.121E-09	9.272E-10	2.524E-10	6.537E-11	
-8.65631E-01	1.212E-08	9.115E-09	3.192E-09	9.486E-10	2.583E-10	6.689E-11	
-7.55044E-01	1.251E-08	9.413E-09	3.295E-09	9.806E-10	2.670E-10	6.916E-11	
-6.17876E-01	1.307E-08	9.832E-09	3.448E-09	1.025E-09	2.792E-10	7.231E-11	
-4.58017E-01	1.381E-08	1.039E-08	3.645E-09	1.084E-09	2.951E-10	7.645E-11	
-2.81605E-01	1.479E-08	1.113E-08	3.901E-09	1.159E-09	3.157E-10	8.177E-11	
-9.50125E-02	1.606E-08	1.208E-08	4.228E-09	1.256E-09	3.417E-10	8.847E-11	
9.50125E-02	1.771E-08	1.329E-08	4.642E-09	1.377E-09	3.742E-10	9.686E-11	
2.81605E-01	1.982E-08	1.486E-08	5.168E-09	1.529E-09	4.150E-10	1.073E-10	
4.58017E-01	2.263E-08	1.690E-08	5.839E-09	1.721E-09	4.662E-10	1.204E-10	
6.17876E-01	2.640E-08	1.963E-08	6.711E-09	1.967E-09	5.312E-10	1.369E-10	
7.55044E-01	3.171E-08	2.337E-08	7.867E-09	2.286E-09	6.145E-10	1.580E-10	
8.65631E-01	3.963E-08	2.883E-08	9.466E-09	2.715E-09	7.244E-10	1.855E-10	
9.44575E-01	5.333E-08	3.788E-08	1.189E-08	3.332E-09	8.779E-10	2.231E-10	
9.89401E-01	1.191E-07	7.500E-08	1.903E-08	4.806E-09	1.196E-09	2.935E-10	
TOTAL	2.691E-07	1.977E-07	6.655E-08	1.940E-08	5.228E-09	1.346E-09	

## FISSION SOURCE

4 P1 R\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)					
	75.0	100.0	150.0	200.0	250.0	300.0
-1.00000E 00	2.524E-11	3.087E-11	3.900E-11	4.497E-11	4.739E-11	4.751E-11
-9.89401E-01	2.528E-11	3.092E-11	3.967E-11	4.506E-11	4.748E-11	4.760E-11
-9.44575E-01	2.542E-11	3.111E-11	3.975E-11	4.540E-11	4.786E-11	4.800E-11
-8.65631E-01	2.573E-11	3.151E-11	4.052E-11	4.609E-11	4.862E-11	4.878E-11
-7.55044E-01	2.625E-11	3.218E-11	4.143E-11	4.717E-11	4.980E-11	4.998E-11
-6.17876E-01	2.707E-11	3.321E-11	4.281E-11	4.877E-11	5.150E-11	5.170E-11
-4.58017E-01	2.833E-11	3.475E-11	4.480E-11	5.104E-11	5.389E-11	5.409E-11
-2.81605E-01	3.016E-11	3.658E-11	4.761E-11	5.419E-11	5.716E-11	5.733E-11
-9.50125E-02	3.279E-11	4.011E-11	5.149E-11	5.845E-11	6.153E-11	6.162E-11
9.50125E-02	4.456E-11	4.739E-11	5.560E-11	6.445E-11	6.745E-11	6.761E-11
2.81605E-01	4.448E-11	5.064E-11	6.479E-11	7.160E-11	7.465E-11	7.476E-11
4.58017E-01	4.809E-11	5.869E-11	7.401E-11	8.400E-11	8.697E-11	8.545E-11
6.17876E-01	6.188E-11	8.006E-11	9.458E-11	1.000E-10	1.026E-10	1.009E-10
7.55044E-01	8.930E-11	9.396E-11	1.144E-10	1.289E-10	1.300E-10	1.253E-10
8.65631E-01	1.405E-10	1.545E-10	1.778E-10	1.790E-10	1.762E-10	1.674E-10
9.44575E-01	3.415E-10	3.158E-10	3.008E-10	2.978E-10	2.802E-10	2.565E-10
9.89401E-01	3.269E-09	2.864E-09	2.214E-09	1.720E-09	1.339E-09	1.048E-09
TOTAL	1.238E-09	1.250E-09	1.282E-09	1.282E-09	1.240E-09	1.170E-09

9.775E-10

## RANGE (METERS)

COSINE

COSINE	RANGE (METERS)					
	500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.00000E 00	3.559E-11	2.765E-11	1.034E-11	3.184E-12	8.838E-13	2.310E-13
-9.89401E-01	3.567E-11	2.771E-11	1.036E-11	3.191E-12	8.858E-13	2.315E-13
-9.44575E-01	3.599E-11	2.796E-11	1.046E-11	3.221E-12	8.942E-13	2.337E-13
-8.65631E-01	3.660E-11	2.844E-11	1.084E-11	3.277E-12	9.098E-13	2.378E-13
-7.55044E-01	3.752E-11	2.916E-11	1.091E-11	3.361E-12	9.330E-13	2.439E-13
-6.17876E-01	3.883E-11	3.017E-11	1.128E-11	3.476E-12	9.650E-13	2.523E-13
-4.58017E-01	4.058E-11	3.152E-11	1.178E-11	3.625E-12	1.007E-12	2.631E-13
-2.81605E-01	4.285E-11	3.328E-11	1.241E-11	3.819E-12	1.060E-12	2.770E-13
9.50125E-02	4.587E-11	3.554E-11	1.322E-11	4.060E-12	1.126E-12	2.942E-13
2.81605E-02	4.976E-11	3.842E-11	1.423E-11	4.360E-12	1.208E-12	3.156E-13
4.58017E-01	5.471E-11	4.216E-11	1.551E-11	4.738E-12	1.311E-12	3.423E-13
6.17876E-01	6.147E-11	4.710E-11	1.717E-11	5.223E-12	1.442E-12	3.765E-13
7.55044E-01	7.093E-11	5.397E-11	1.941E-11	5.867E-12	1.616E-12	4.215E-13
8.65631E-01	8.508E-11	6.402E-11	2.258E-11	6.761E-12	1.854E-12	4.831E-13
9.44575E-01	1.080E-10	7.995E-11	2.736E-11	8.076E-12	2.193E-12	5.716E-13
9.89401E-01	1.516E-10	1.092E-10	3.549E-11	1.026E-11	2.742E-12	7.076E-13
TOTAL	4.044E-10	2.543E-10	6.431E-11	1.625E-11	4.057E-12	1.001E-12

4.381E-12

## FISSION SOURCE

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	1.254E-09	1.504E-09	1.851E-09	2.017E-09	2.045E-09
-9.89401E-01	1.254E-09	1.504E-09	1.851E-09	2.017E-09	2.045E-09
-9.44575E-01	1.265E-09	1.519E-09	1.871E-09	2.041E-09	2.070E-09
-8.65631E-01	1.283E-09	1.543E-09	1.904E-09	2.079E-09	2.111E-09
-7.55044E-01	1.315E-09	1.583E-09	1.957E-09	2.140E-09	2.175E-09
-6.17876E-01	1.363E-09	1.642E-09	2.035E-09	2.228E-09	2.268E-09
-4.58017E-01	1.433E-09	1.729E-09	2.145E-09	2.352E-09	2.396E-09
-2.81605E-01	1.534E-09	1.850E-09	2.298E-09	2.521E-09	2.565E-09
-9.50125E-02	1.675E-09	2.019E-09	2.506E-09	2.745E-09	2.800E-09
9.50125E-02	2.229E-09	2.471E-09	2.716E-09	3.076E-09	3.124E-09
2.81605E-01	2.299E-09	2.551E-09	3.202E-09	3.438E-09	3.494E-09
4.58017E-01	2.455E-09	2.906E-09	3.664E-09	4.082E-09	4.124E-09
6.17876E-01	3.114E-09	4.177E-09	4.816E-09	4.870E-09	4.884E-09
7.55044E-01	4.483E-09	4.557E-09	5.436E-09	6.224E-09	6.174E-09
8.65631E-01	6.611E-09	7.470E-09	8.541E-09	8.445E-09	8.194E-09
9.44575E-01	1.439E-08	1.384E-08	1.336E-08	1.331E-08	1.244E-08
9.89401E-01	1.250E-07	1.084E-07	8.286E-08	6.375E-08	4.925E-08
TOTAL	5.432E-08	5.574E-08	5.764E-08	5.735E-08	5.479E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	1.333E-09	9.971E-10	3.458E-10	1.022E-10	2.776E-11
-9.89401E-01	1.337E-09	9.999E-10	3.468E-10	1.025E-10	2.784E-11
-9.44575E-01	1.352E-09	1.012E-09	3.511E-10	1.038E-10	2.820E-11
-8.65631E-01	1.382E-09	1.035E-09	3.593E-10	1.063E-10	2.888E-11
-7.55044E-01	1.428E-09	1.070E-09	3.717E-10	1.100E-10	2.989E-11
-6.17876E-01	1.493E-09	1.119E-09	3.890E-10	1.151E-10	3.129E-11
-4.58017E-01	1.580E-09	1.184E-09	4.120E-10	1.220E-10	3.315E-11
-2.81605E-01	1.696E-09	1.271E-09	4.421E-10	1.308E-10	3.555E-11
-9.50125E-02	1.846E-09	1.383E-09	4.806E-10	1.421E-10	3.860E-11
9.50125E-02	2.043E-09	1.528E-09	5.296E-10	1.564E-10	4.244E-11
2.81605E-01	2.295E-09	1.715E-09	5.920E-10	1.744E-10	4.727E-11
4.58017E-01	2.633E-09	1.960E-09	6.723E-10	1.974E-10	5.337E-11
6.17876E-01	3.090E-09	2.289E-09	7.772E-10	2.269E-10	6.116E-11
7.55044E-01	3.737E-09	2.745E-09	9.172E-10	2.654E-10	7.121E-11
8.65631E-01	4.710E-09	3.414E-09	1.112E-09	3.175E-10	8.453E-11
9.44575E-01	6.403E-09	4.529E-09	1.410E-09	3.928E-10	1.032E-10
9.89401E-01	1.459E-08	9.135E-09	2.287E-09	5.724E-10	1.416E-10
TOTAL	3.143E-08	2.258E-08	7.664E-09	2.223E-09	5.976E-10

1800.0

1500.0

1200.0

900.0

600.0

500.0

400.0

300.0

200.0

100.0

4 PI R**2 AIR KERMA (NEUTRONS) (CM**2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)		FISSION SOURCE					
COSINE	RANGE (METERS)	RANGE (METERS)					
		75.0	100.0	150.0	200.0	250.0	300.0
-1.0000E 00	1.136E-09	1.367E-09	1.710E-09	1.910E-09	1.992E-09	1.983E-09	1.785E-09
-9.89401E-01	1.138E-09	1.369E-09	1.713E-09	1.914E-09	1.996E-09	1.987E-09	1.789E-09
-9.44575E-01	1.144E-09	1.379E-09	1.727E-09	1.930E-09	2.013E-09	2.005E-09	1.805E-09
-8.65631E-01	1.162E-09	1.399E-09	1.754E-09	1.962E-09	2.048E-09	2.040E-09	1.837E-09
-7.55044E-01	1.188E-09	1.432E-09	1.797E-09	2.012E-09	2.101E-09	2.094E-09	1.886E-09
-6.17876E-01	1.229E-09	1.482E-09	1.862E-09	2.086E-09	2.179E-09	2.171E-09	1.956E-09
-4.58017E-01	1.290E-09	1.556E-09	1.956E-09	2.191E-09	2.287E-09	2.279E-09	2.051E-09
-2.81605E-01	1.379E-09	1.662E-09	2.087E-09	2.336E-09	2.436E-09	2.425E-09	2.179E-09
-9.50125E-02	1.504E-09	1.810E-09	2.268E-09	2.535E-09	2.637E-09	2.620E-09	2.347E-09
9.50125E-02	2.053E-09	2.166E-09	2.421E-09	2.842E-09	2.946E-09	2.882E-09	2.564E-09
2.81605E-01	2.094E-09	2.324E-09	2.923E-09	3.131E-09	3.235E-09	3.239E-09	2.866E-09
4.58017E-01	2.238E-09	2.679E-09	3.319E-09	3.756E-09	3.849E-09	3.727E-09	3.272E-09
6.17876E-01	2.891E-09	3.783E-09	4.373E-09	4.501E-09	4.563E-09	4.474E-09	3.862E-09
7.55044E-01	4.224E-09	4.388E-09	5.245E-09	5.907E-09	5.900E-09	5.622E-09	4.760E-09
8.65631E-01	6.686E-09	7.326E-09	8.399E-09	8.300E-09	8.081E-09	7.622E-09	6.249E-09
9.44575E-01	1.643E-08	1.506E-08	1.416E-08	1.393E-08	1.300E-08	1.178E-08	9.173E-09
9.89401E-01	1.540E-07	1.342E-07	1.027E-07	7.892E-08	6.080E-08	4.716E-08	2.865E-08
TOTAL	5.811E-08	5.809E-08	5.841E-08	5.752E-08	5.492E-08	5.127E-08	4.229E-08

COSINE	RANGE (METERS)	RANGE (METERS)					
		500.0	600.0	900.0	1200.0	1500.0	1800.0
-1.0000E 00	1.471E-09	1.142E-09	1.425E-09	4.271E-10	1.318E-10	3.663E-11	9.589E-12
-9.89401E-01	1.475E-09	1.145E-09	1.428E-09	4.281E-10	1.320E-10	3.671E-11	9.611E-12
-9.44575E-01	1.489E-09	1.155E-09	1.455E-09	4.321E-10	1.333E-10	3.707E-11	9.704E-12
-8.65631E-01	1.515E-09	1.176E-09	1.476E-09	4.399E-10	1.357E-10	3.773E-11	9.877E-12
-7.55044E-01	1.555E-09	1.207E-09	1.507E-09	4.515E-10	1.392E-10	3.871E-11	1.014E-11
-6.17876E-01	1.613E-09	1.251E-09	1.551E-09	4.676E-10	1.442E-10	4.008E-11	1.049E-11
-4.58017E-01	1.690E-09	1.310E-09	1.600E-09	4.890E-10	1.506E-10	4.186E-11	1.096E-11
-2.81605E-01	1.792E-09	1.388E-09	1.679E-09	5.167E-10	1.590E-10	4.415E-11	1.156E-11
-9.50125E-02	1.924E-09	1.489E-09	1.800E-09	5.520E-10	1.695E-10	4.703E-11	1.230E-11
9.50125E-02	2.101E-09	1.619E-09	1.919E-09	5.970E-10	1.828E-10	5.065E-11	1.324E-11
2.81605E-01	2.329E-09	1.789E-09	2.066E-09	6.546E-10	1.996E-10	5.521E-11	1.442E-11
4.58017E-01	2.642E-09	2.016E-09	2.334E-09	7.299E-10	2.214E-10	6.105E-11	1.593E-11
6.17876E-01	3.083E-09	2.344E-09	2.798E-09	8.317E-10	2.502E-10	6.874E-11	1.791E-11
7.55044E-01	3.741E-09	2.798E-09	3.244E-09	9.744E-10	2.898E-10	7.913E-11	2.056E-11
8.65631E-01	4.798E-09	3.524E-09	4.030E-09	1.186E-09	3.466E-10	9.378E-11	2.426E-11
9.44575E-01	6.775E-09	4.830E-09	5.355E-09	1.536E-09	4.355E-10	1.159E-10	2.969E-11
9.89401E-01	1.764E-08	1.096E-08	2.700E-09	6.716E-10	1.659E-10	4.061E-11	4.061E-11
TOTAL	3.295E-08	2.460E-08	8.621E-09	2.581E-09	7.072E-10	1.839E-10	1.839E-10

## FISSION SOURCE

4 PI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/SYERADIAN/SOURCE NEUTRON)

CCSINE	RANGE (METERS)					RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0	300.0	400.0	500.0	600.0	700.0
-1.00000E-00	9.562E-11	1.133E-10	1.367E-10	1.467E-10	1.468E-10	1.406E-10	1.181E-10	9.194E-11	6.807E-11	5.47E-09
-9.89401E-01	9.589E-11	1.136E-10	1.371E-10	1.471E-10	1.473E-10	1.411E-10	1.185E-10	9.224E-11	6.829E-11	5.483E-09
-9.44575E-01	9.681E-11	1.147E-10	1.385E-10	1.487E-10	1.490E-10	1.428E-10	1.200E-10	9.346E-11	6.921E-11	5.50125E-02
-8.65631E-01	9.847E-11	1.169E-10	1.413E-10	1.519E-10	1.523E-10	1.461E-10	1.229E-10	9.578E-11	7.097E-11	5.50125E-02
-7.55044E-01	1.011E-10	1.202E-10	1.456E-10	1.567E-10	1.573E-10	1.510E-10	1.272E-10	9.823E-11	7.358E-11	5.50125E-02
-6.17876E-01	1.051E-10	1.250E-10	1.517E-10	1.636E-10	1.645E-10	1.580E-10	1.333E-10	1.041E-10	7.727E-11	5.50125E-02
-4.58017E-01	1.109E-10	1.320E-10	1.606E-10	1.734E-10	1.745E-10	1.679E-10	1.418E-10	1.109E-10	8.234E-11	5.50125E-02
-2.81605E-01	1.195E-10	1.423E-10	1.732E-10	1.873E-10	1.886E-10	1.815E-10	1.535E-10	1.200E-10	8.917E-11	5.50125E-02
-9.50125E-02	1.317E-10	1.567E-10	1.907E-10	2.062E-10	2.076E-10	1.998E-10	1.690E-10	1.249E-10	9.814E-11	5.50125E-02
9.50125E-02	1.717E-10	1.951E-10	2.113E-10	2.323E-10	2.334E-10	2.247E-10	1.889E-10	1.684E-10	1.249E-10	5.50125E-02
2.81605E-01	1.833E-10	2.028E-10	2.479E-10	2.645E-10	2.658E-10	2.561E-10	2.161E-10	1.962E-10	1.452E-10	5.50125E-02
4.58017E-01	2.000E-10	2.368E-10	2.875E-10	3.153E-10	3.155E-10	3.008E-10	2.523E-10	2.362E-10	1.741E-10	5.50125E-02
6.17876E-01	2.586E-10	3.342E-10	3.861E-10	3.861E-10	3.838E-10	3.668E-10	3.055E-10	2.983E-10	2.184E-10	5.50125E-02
7.55044E-01	3.944E-10	3.911E-10	4.565E-10	5.095E-10	5.017E-10	4.730E-10	3.890E-10	4.033E-10	2.921E-10	5.50125E-02
8.65631E-01	6.085E-10	6.705E-10	7.499E-10	7.363E-10	7.107E-10	6.629E-10	5.340E-10	6.115E-10	4.336E-10	5.50125E-02
9.44575E-01	1.520E-09	1.403E-09	1.319E-09	1.283E-09	1.191E-09	1.077E-09	8.329E-10	1.949E-09	1.216E-09	5.50125E-02
9.89401E-01	1.583E-08	1.386E-08	1.074E-08	8.367E-09	6.517E-09	5.101E-09	3.141E-09	2.544E-09	1.833E-09	5.50125E-02
TOTAL	5.547E-09	5.483E-09	5.371E-09	5.142E-09	4.776E-09	4.343E-09	3.407E-09	2.544E-09	1.833E-09	5.50125E-02

## FISSION SOURCE

COSINE	RANGE (METERS)					RANGE (METERS)				
	900.0	1200.0	1500.0	1800.0	2000.0	2500.0	3000.0	3500.0	4000.0	4500.0
-1.00000E-00	2.314E-11	6.774E-12	1.833E-12	4.746E-13	1.833E-12	1.833E-12	1.833E-12	1.833E-12	1.833E-12	1.833E-12
-9.89401E-01	2.322E-11	6.798E-12	1.840E-12	4.762E-13	1.840E-12	1.840E-12	1.840E-12	1.840E-12	1.840E-12	1.840E-12
-9.44575E-01	2.355E-11	6.896E-12	1.867E-12	4.833E-13	1.867E-12	1.867E-12	1.867E-12	1.867E-12	1.867E-12	1.867E-12
-8.65631E-01	2.417E-11	7.081E-12	1.918E-12	4.966E-13	1.918E-12	1.918E-12	1.918E-12	1.918E-12	1.918E-12	1.918E-12
-7.55044E-01	2.509E-11	7.357E-12	2.000E-12	5.165E-13	2.000E-12	2.000E-12	2.000E-12	2.000E-12	2.000E-12	2.000E-12
-6.17876E-01	2.639E-11	7.746E-12	2.100E-12	5.445E-13	2.100E-12	2.100E-12	2.100E-12	2.100E-12	2.100E-12	2.100E-12
-4.58017E-01	2.816E-11	8.272E-12	2.244E-12	5.822E-13	2.244E-12	2.244E-12	2.244E-12	2.244E-12	2.244E-12	2.244E-12
-2.81605E-01	3.051E-11	8.969E-12	2.435E-12	6.320E-13	2.435E-12	2.435E-12	2.435E-12	2.435E-12	2.435E-12	2.435E-12
-9.50125E-02	3.357E-11	9.869E-12	2.680E-12	6.960E-13	2.680E-12	2.680E-12	2.680E-12	2.680E-12	2.680E-12	2.680E-12
9.50125E-02	3.750E-11	1.102E-11	2.993E-12	7.777E-13	2.993E-12	2.993E-12	2.993E-12	2.993E-12	2.993E-12	2.993E-12
2.81605E-01	4.256E-11	1.250E-11	3.396E-12	8.831E-13	3.396E-12	3.396E-12	3.396E-12	3.396E-12	3.396E-12	3.396E-12
4.58017E-01	4.931E-11	1.446E-11	3.932E-12	1.024E-12	3.932E-12	3.932E-12	3.932E-12	3.932E-12	3.932E-12	3.932E-12
6.17876E-01	5.879E-11	1.722E-11	4.685E-12	1.224E-12	4.685E-12	4.685E-12	4.685E-12	4.685E-12	4.685E-12	4.685E-12
7.55044E-01	7.296E-11	2.130E-11	5.800E-12	1.520E-12	5.800E-12	5.800E-12	5.800E-12	5.800E-12	5.800E-12	5.800E-12
8.65631E-01	9.572E-11	2.774E-11	7.548E-12	1.982E-12	7.548E-12	7.548E-12	7.548E-12	7.548E-12	7.548E-12	7.548E-12
9.44575E-01	1.368E-10	3.892E-11	1.050E-11	2.749E-12	1.050E-11	1.050E-11	1.050E-11	1.050E-11	1.050E-11	1.050E-11
9.89401E-01	2.994E-10	7.420E-11	1.837E-11	4.543E-12	1.837E-11	1.837E-11	1.837E-11	1.837E-11	1.837E-11	1.837E-11
TOTAL	5.970E-10	1.721E-10	4.643E-11	1.206E-11	4.643E-11	4.643E-11	4.643E-11	4.643E-11	4.643E-11	4.643E-11



4 PI R**2 NON IONIZING SILICON KERMA (NEUTRONS) (CM**2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)										FISSION SOURCE											
COSINE	RANGE (METERS)										COSINE	RANGE (METERS)									
	75.0	100.0	150.0	200.0	250.0	300.0	400.0	500.0	600.0	900.0		1200.0	1500.0	1800.0							
-1.00000E-00	1.407E-10	1.676E-10	2.034E-10	2.191E-10	2.199E-10	2.109E-10	1.774E-10														
-9.89401E-01	1.409E-10	1.679E-10	2.038E-10	2.196E-10	2.204E-10	2.115E-10	1.779E-10														
-9.44575E-01	1.419E-10	1.692E-10	2.056E-10	2.218E-10	2.227E-10	2.138E-10	1.800E-10														
-8.5631E-01	1.440E-10	1.719E-10	2.093E-10	2.261E-10	2.273E-10	2.184E-10	1.842E-10														
-7.55044E-01	1.475E-10	1.763E-10	2.153E-10	2.329E-10	2.345E-10	2.266E-10	1.905E-10														
-6.17876E-01	1.530E-10	1.831E-10	2.241E-10	2.429E-10	2.449E-10	2.358E-10	1.995E-10														
-4.58017E-01	1.610E-10	1.929E-10	2.367E-10	2.570E-10	2.594E-10	2.500E-10	2.118E-10														
-2.81605E-01	1.725E-10	2.068E-10	2.541E-10	2.762E-10	2.791E-10	2.692E-10	2.282E-10														
-9.50125E-02	1.886E-10	2.260E-10	2.778E-10	3.021E-10	3.054E-10	2.947E-10	2.499E-10														
9.50125E-02	2.517E-10	2.760E-10	2.986E-10	3.420E-10	3.454E-10	3.282E-10	2.780E-10														
2.81605E-01	2.583E-10	2.868E-10	3.584E-10	3.792E-10	3.825E-10	3.740E-10	3.159E-10														
4.58017E-01	2.781E-10	3.277E-10	4.107E-10	4.553E-10	4.575E-10	4.339E-10	3.658E-10														
6.17876E-01	3.523E-10	4.706E-10	5.396E-10	5.423E-10	5.411E-10	5.214E-10	4.350E-10														
7.55044E-01	5.089E-10	5.133E-10	6.096E-10	6.958E-10	6.878E-10	6.475E-10	5.341E-10														
8.5631E-01	7.424E-10	8.392E-10	9.658E-10	9.411E-10	9.107E-10	8.525E-10	6.870E-10														
9.44575E-01	1.563E-09	1.528E-09	1.482E-09	1.476E-09	1.378E-09	1.247E-09	9.636E-10														
9.89401E-01	1.345E-08	1.164E-08	8.914E-09	6.873E-09	5.322E-09	4.153E-09	2.556E-09														
TOTAL	5.989E-09	6.154E-09	6.359E-09	6.313E-09	6.009E-09	5.558E-09	4.465E-09														
CCSINE	RANGE (METERS)										CCSINE	RANGE (METERS)									
	500.0	600.0	900.0	1200.0	1500.0	1800.0	2000.0	2500.0	3000.0	4000.0											
-1.00000E-00	1.382E-10	1.023E-10	3.470E-11	1.013E-11	2.733E-12	7.051E-13															
-9.89401E-01	1.386E-10	1.026E-10	3.481E-11	1.016E-11	2.742E-12	7.075E-13															
-9.44575E-01	1.403E-10	1.039E-10	3.528E-11	1.030E-11	2.781E-12	7.175E-13															
-8.5631E-01	1.436E-10	1.064E-10	3.618E-11	1.057E-11	2.854E-12	7.365E-13															
-7.55044E-01	1.487E-10	1.103E-10	3.754E-11	1.098E-11	2.964E-12	7.651E-13															
-6.17876E-01	1.559E-10	1.137E-10	3.944E-11	1.154E-11	3.118E-12	8.049E-13															
-4.58017E-01	1.657E-10	1.231E-10	4.199E-11	1.229E-11	3.321E-12	8.576E-13															
-2.81605E-01	1.787E-10	1.328E-10	4.533E-11	1.327E-11	3.587E-12	9.261E-13															
9.50125E-02	1.957E-10	1.454E-10	4.964E-11	1.453E-11	3.925E-12	1.013E-12															
2.81605E-02	2.178E-10	1.617E-10	5.514E-11	1.613E-11	4.354E-12	1.124E-12															
2.81605E-01	2.466E-10	1.829E-10	6.219E-11	1.816E-11	4.897E-12	1.263E-12															
4.58017E-01	2.849E-10	2.107E-10	7.128E-11	2.075E-11	5.586E-12	1.438E-12															
6.17876E-01	3.366E-10	2.480E-10	8.316E-11	2.409E-11	6.466E-12	1.662E-12															
7.55044E-01	4.095E-10	2.994E-10	9.900E-11	2.846E-11	7.604E-12	1.949E-12															
8.5631E-01	5.182E-10	3.743E-10	1.209E-10	3.433E-11	9.110E-12	2.326E-12															
9.44575E-01	7.051E-10	4.978E-10	1.541E-10	4.281E-11	1.122E-11	2.843E-12															
9.89401E-01	1.593E-09	9.997E-10	2.514E-10	6.300E-11	1.559E-11	3.817E-12															
TOTAL	3.381E-09	2.456E-09	8.075E-10	2.322E-10	6.210E-11	1.593E-11															

## FISSION SOURCE

4 PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CH\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	4.368E-13	6.107E-13	9.765E-13	1.317E-12	1.591E-12
-9.89401E-01	4.386E-13	6.134E-13	9.811E-13	1.323E-12	1.600E-12
-9.44575E-01	4.453E-13	6.234E-13	9.986E-13	1.349E-12	1.624E-12
-8.65631E-01	4.583E-13	6.417E-13	1.030E-12	1.396E-12	1.695E-12
-7.55044E-01	4.160E-13	6.667E-13	1.074E-12	1.460E-12	1.779E-12
-6.17876E-01	4.987E-13	6.984E-13	1.128E-12	1.540E-12	1.886E-12
-4.58017E-01	5.277E-13	7.383E-13	1.196E-12	1.642E-12	2.022E-12
-2.81605E-01	5.654E-13	7.896E-13	1.282E-12	1.772E-12	2.139E-12
-9.50125E-02	6.152E-13	8.567E-13	1.394E-12	1.940E-12	2.288E-12
9.50125E-02	7.228E-13	1.012E-12	1.601E-12	2.122E-12	2.689E-12
2.81605E-01	8.315E-13	1.032E-12	1.660E-12	2.453E-12	3.123E-12
4.58017E-01	9.005E-13	1.261E-12	2.013E-12	2.740E-12	3.531E-12
6.17876E-01	1.063E-12	1.452E-12	2.244E-12	3.245E-12	4.188E-12
7.55044E-01	1.393E-12	1.836E-12	2.839E-12	3.857E-12	4.977E-12
8.65631E-01	1.988E-12	2.483E-12	3.698E-12	4.994E-12	6.319E-12
9.44575E-01	3.085E-12	4.100E-12	5.716E-12	7.330E-12	8.922E-12
9.89401E-01	7.552E-12	9.514E-12	1.303E-11	1.583E-11	1.813E-11
TOTAL	1.185E-11	1.586E-11	2.443E-11	3.314E-11	4.138E-11

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.801E-12	1.549E-12	7.306E-13	2.741E-13	9.321E-14
-9.89401E-01	1.814E-12	1.562E-12	7.405E-13	2.815E-13	9.824E-14
-9.44575E-01	1.866E-12	1.612E-12	7.778E-13	3.060E-13	1.126E-13
-8.65631E-01	1.959E-12	1.700E-12	8.367E-13	3.409E-13	1.340E-13
-7.55044E-01	2.084E-12	1.816E-12	9.032E-13	3.724E-13	1.474E-13
-6.17876E-01	2.248E-12	1.966E-12	9.789E-13	3.984E-13	1.534E-13
-4.58017E-01	2.464E-12	2.165E-12	1.079E-12	4.308E-13	1.597E-13
-2.81605E-01	2.760E-12	2.443E-12	1.230E-12	4.900E-13	1.791E-13
-9.50125E-02	3.169E-12	2.836E-12	1.464E-12	5.940E-13	2.223E-13
9.50125E-02	3.727E-12	3.388E-12	1.811E-12	7.564E-13	2.918E-13
2.81605E-01	4.483E-12	4.154E-12	2.322E-12	9.968E-13	3.897E-13
4.58017E-01	5.503E-12	5.226E-12	3.092E-12	1.372E-12	5.396E-13
6.17876E-01	6.893E-12	6.747E-12	4.320E-12	2.029E-12	8.246E-13
7.55044E-01	8.799E-12	8.923E-12	6.347E-12	3.276E-12	1.445E-12
8.65631E-01	1.144E-11	1.202E-11	9.661E-12	5.648E-12	2.806E-12
9.44575E-01	1.538E-11	1.649E-11	1.478E-11	9.848E-12	5.572E-12
9.89401E-01	2.489E-11	2.572E-11	2.308E-11	1.662E-11	1.042E-11
TOTAL	6.142E-11	5.937E-11	3.949E-11	2.080E-11	9.950E-12

COSINE	RANGE (METERS)				
	300.0	400.0	500.0	600.0	700.0
-1.00000E 00	1.783E-12	1.918E-12	2.009E-12	2.099E-12	2.191E-12
-9.89401E-01	1.793E-12	1.931E-12	2.022E-12	2.112E-12	2.202E-12
-9.44575E-01	1.834E-12	1.980E-12	2.069E-12	2.159E-12	2.249E-12
-8.65631E-01	1.908E-12	2.069E-12	2.139E-12	2.229E-12	2.319E-12
-7.55044E-01	2.009E-12	2.191E-12	2.288E-12	2.378E-12	2.468E-12
-6.17876E-01	2.139E-12	2.319E-12	2.468E-12	2.558E-12	2.648E-12
-4.58017E-01	2.288E-12	2.468E-12	2.648E-12	2.738E-12	2.828E-12
-2.81605E-01	2.468E-12	2.648E-12	2.828E-12	2.918E-12	3.008E-12
-9.50125E-02	2.689E-12	2.828E-12	3.008E-12	3.098E-12	3.188E-12
9.50125E-02	3.123E-12	3.249E-12	3.378E-12	3.468E-12	3.558E-12
2.81605E-01	3.531E-12	3.648E-12	3.758E-12	3.848E-12	3.938E-12
4.58017E-01	4.188E-12	4.288E-12	4.378E-12	4.468E-12	4.558E-12
6.17876E-01	4.977E-12	5.058E-12	5.148E-12	5.238E-12	5.328E-12
7.55044E-01	6.319E-12	6.398E-12	6.478E-12	6.558E-12	6.638E-12
8.65631E-01	8.922E-12	8.998E-12	9.078E-12	9.158E-12	9.238E-12
9.44575E-01	1.050E-11	1.058E-11	1.066E-11	1.074E-11	1.082E-11
9.89401E-01	2.005E-11	2.013E-11	2.021E-11	2.029E-11	2.037E-11
TOTAL	4.856E-11	4.856E-11	4.856E-11	4.856E-11	4.856E-11

## FISSION SOURCE

4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	4.429E-11	6.240E-11	1.008E-10	1.369E-10	1.665E-10
-9.89401E-01	4.447E-11	6.266E-11	1.012E-10	1.375E-10	1.673E-10
-9.44575E-01	4.514E-11	6.364E-11	1.030E-10	1.401E-10	1.707E-10
-8.65631E-01	4.639E-11	6.544E-11	1.061E-10	1.448E-10	1.768E-10
-7.55044E-01	4.813E-11	6.791E-11	1.104E-10	1.511E-10	1.852E-10
-6.17876E-01	5.036E-11	7.103E-11	1.158E-10	1.592E-10	1.959E-10
-4.58017E-01	5.320E-11	7.496E-11	1.225E-10	1.693E-10	2.095E-10
-2.81605E-01	5.690E-11	8.002E-11	1.311E-10	1.823E-10	2.272E-10
-9.50125E-02	6.178E-11	8.661E-11	1.422E-10	1.990E-10	2.500E-10
2.81605E-01	7.212E-11	1.019E-10	1.630E-10	2.170E-10	2.759E-10
4.58017E-01	8.264E-11	1.103E-10	1.81E-10	2.500E-10	3.193E-10
6.17876E-01	8.966E-11	1.263E-10	2.034E-10	2.780E-10	3.595E-10
7.55044E-01	1.054E-10	1.445E-10	2.255E-10	3.280E-10	4.246E-10
8.65631E-01	1.374E-10	1.825E-10	2.840E-10	3.877E-10	5.019E-10
9.44575E-01	1.956E-10	2.449E-10	3.670E-10	4.989E-10	6.335E-10
9.89401E-01	3.021E-10	4.026E-10	5.642E-10	7.262E-10	8.872E-10
TOTAL	7.368E-10	9.294E-10	1.277E-09	1.555E-09	1.786E-09
	1.177E-09	1.585E-09	2.462E-09	3.359E-09	4.211E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.945E-10	1.699E-10	8.513E-11	3.472E-11	1.318E-11
-9.89401E-01	1.958E-10	1.712E-10	8.613E-11	3.545E-11	1.367E-11
-9.44575E-01	2.010E-10	1.762E-10	8.986E-11	3.791E-11	1.511E-11
-8.65631E-01	2.103E-10	1.851E-10	9.581E-11	4.142E-11	1.725E-11
-7.55044E-01	2.230E-10	1.969E-10	1.026E-10	4.467E-11	1.865E-11
-6.17876E-01	2.395E-10	2.120E-10	1.104E-10	4.743E-11	1.934E-11
-4.58017E-01	2.613E-10	2.321E-10	1.207E-10	5.087E-11	2.009E-11
-2.81605E-01	2.911E-10	2.602E-10	1.361E-10	5.697E-11	2.213E-11
-9.50125E-02	3.321E-10	2.997E-10	1.596E-10	6.750E-11	2.651E-11
2.81605E-01	3.880E-10	3.549E-10	1.945E-10	8.383E-11	3.350E-11
4.58017E-01	4.634E-10	4.315E-10	2.455E-10	1.079E-10	4.331E-11
6.17876E-01	5.651E-10	5.382E-10	3.222E-10	1.452E-10	5.822E-11
7.55044E-01	7.032E-10	6.895E-10	4.442E-10	2.104E-10	8.638E-11
8.65631E-01	8.923E-10	9.055E-10	6.452E-10	3.337E-10	1.476E-10
9.44575E-01	1.154E-09	1.212E-09	9.737E-10	5.685E-10	2.820E-10
9.89401E-01	1.541E-09	1.653E-09	1.481E-09	9.852E-10	5.565E-10
TOTAL	2.473E-09	2.561E-09	2.302E-09	1.659E-09	1.040E-09
	6.313E-09	6.119E-09	4.098E-09	2.170E-09	1.042E-09

5.966E-09

4.955E-09

4.211E-09

3.359E-09

2.462E-09

1.585E-09

9.294E-10

4.026E-10

1.825E-10

1.445E-10

3.877E-10

5.019E-10

6.335E-10

8.872E-10

1.555E-09

1.277E-09

2.462E-09

3.359E-09

4.211E-09

4.955E-09

5.966E-09

## FISSION SOURCE

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.0000E-00	5.035E-11	7.365E-11	1.233E-10	1.718E-10	2.141E-10
-9.89401E-01	5.103E-11	7.390E-11	1.237E-10	1.725E-10	2.150E-10
-9.44575E-01	5.169E-11	7.487E-11	1.254E-10	1.751E-10	2.184E-10
-8.65631E-01	5.291E-11	7.666E-11	1.286E-10	1.798E-10	2.246E-10
-7.55044E-01	5.462E-11	7.912E-11	1.329E-10	1.862E-10	2.332E-10
-6.17876E-01	5.682E-11	8.224E-11	1.384E-10	1.944E-10	2.441E-10
-4.58017E-01	5.964E-11	8.617E-11	1.452E-10	2.048E-10	2.581E-10
-2.81605E-01	6.328E-11	9.122E-11	1.539E-10	2.180E-10	2.760E-10
-9.50125E-02	6.806E-11	9.776E-11	1.650E-10	2.348E-10	2.991E-10
9.50125E-02	7.801E-11	1.124E-10	1.850E-10	2.532E-10	3.254E-10
2.81605E-01	8.843E-11	1.149E-10	1.916E-10	2.654E-10	3.678E-10
4.58017E-01	9.501E-11	1.363E-10	2.252E-10	3.138E-10	4.082E-10
6.17876E-01	1.102E-10	1.546E-10	2.479E-10	3.623E-10	4.715E-10
7.55044E-01	1.469E-10	1.903E-10	3.038E-10	4.209E-10	5.471E-10
8.65631E-01	1.957E-10	2.504E-10	3.839E-10	5.275E-10	6.733E-10
9.44575E-01	2.962E-10	3.990E-10	5.700E-10	7.433E-10	9.143E-10
9.89401E-01	7.042E-10	8.933E-10	1.239E-09	1.521E-09	1.756E-09
TOTAL	1.236E-09	1.703E-09	2.723E-09	3.779E-09	4.790E-09

COSINE	RANGE (METERS)			
	500.0	600.0	900.0	1200.0
-1.0000E-00	2.862E-10	2.660E-10	1.633E-10	8.233E-11
-9.89401E-01	2.875E-10	2.674E-10	1.644E-10	8.309E-11
-9.44575E-01	2.930E-10	2.727E-10	1.684E-10	8.573E-11
-8.65631E-01	3.025E-10	2.823E-10	1.750E-10	8.967E-11
-7.55044E-01	3.163E-10	2.951E-10	1.830E-10	9.369E-11
-6.17876E-01	3.339E-10	3.116E-10	1.924E-10	9.763E-11
-4.58017E-01	3.570E-10	3.344E-10	2.046E-10	1.025E-10
-2.81605E-01	3.881E-10	3.632E-10	2.222E-10	1.103E-10
-9.50125E-02	4.301E-10	4.042E-10	2.479E-10	1.224E-10
9.50125E-02	4.864E-10	4.603E-10	2.845E-10	1.403E-10
2.81605E-01	5.612E-10	5.366E-10	3.366E-10	1.656E-10
4.58017E-01	6.607E-10	6.412E-10	4.129E-10	2.036E-10
6.17876E-01	7.941E-10	7.869E-10	5.310E-10	2.674E-10
7.55044E-01	9.745E-10	9.923E-10	7.215E-10	3.847E-10
8.65631E-01	1.222E-09	1.281E-09	6.036E-10	5.022E-10
9.44575E-01	1.586E-09	1.693E-09	1.497E-09	9.875E-10
9.89401E-01	2.454E-09	2.536E-09	2.253E-09	1.604E-09
TOTAL	7.447E-09	7.319E-09	5.103E-09	2.795E-09

COSINE	RANGE (METERS)		
	1500.0	1800.0	400.0
-1.0000E-00	3.837E-11	1.737E-11	2.472E-10
-9.89401E-01	3.887E-11	1.767E-11	2.483E-10
-9.44575E-01	4.038E-11	1.859E-11	2.524E-10
-8.65631E-01	4.273E-11	1.974E-11	2.600E-10
-7.55044E-01	4.456E-11	2.068E-11	2.704E-10
-6.17876E-01	4.594E-11	2.102E-11	2.838E-10
-4.58017E-01	4.755E-11	2.145E-11	3.011E-10
-2.81605E-01	5.055E-11	2.272E-11	3.235E-10
-9.50125E-02	5.588E-11	2.500E-11	3.520E-10
9.50125E-02	6.381E-11	2.847E-11	3.904E-10
2.81605E-01	7.454E-11	3.282E-11	4.179E-10
4.58017E-01	9.020E-11	3.867E-11	4.679E-10
6.17876E-01	1.183E-10	4.970E-11	5.328E-10
7.55044E-01	1.768E-10	7.584E-11	6.161E-10
8.65631E-01	3.022E-10	1.394E-10	7.240E-10
9.44575E-01	5.545E-10	2.840E-10	8.662E-10
9.89401E-01	9.953E-10	5.656E-10	1.062E-09
TOTAL	1.375E-09	6.463E-10	1.375E-09

## FISSION SOURCE

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	4.555E-11	6.434E-11	1.043E-10	1.421E-10	1.732E-10
-9.89401E-01	4.573E-11	6.461E-11	1.048E-10	1.428E-10	1.741E-10
-9.44575E-01	4.642E-11	6.561E-11	1.065E-10	1.454E-10	1.775E-10
-8.65631E-01	4.769E-11	6.744E-11	1.098E-10	1.501E-10	1.838E-10
-7.55044E-01	4.945E-11	6.995E-11	1.141E-10	1.566E-10	1.923E-10
-6.17876E-01	5.172E-11	7.313E-11	1.196E-10	1.648E-10	2.033E-10
-4.58017E-01	5.462E-11	7.713E-11	1.265E-10	1.752E-10	2.172E-10
-2.81605E-01	5.837E-11	8.227E-11	1.352E-10	1.884E-10	2.352E-10
-9.50125E-02	6.333E-11	8.898E-11	1.465E-10	2.054E-10	2.585E-10
9.50125E-02	7.386E-11	1.046E-10	1.678E-10	2.237E-10	2.848E-10
2.81605E-01	8.446E-11	1.062E-10	1.728E-10	2.575E-10	3.292E-10
4.58017E-01	9.168E-11	1.293E-10	2.089E-10	2.859E-10	3.701E-10
6.17876E-01	1.077E-10	1.477E-10	2.312E-10	3.368E-10	4.365E-10
7.55044E-01	1.4C1E-10	1.865E-10	2.908E-10	3.975E-10	5.151E-10
8.65631E-01	1.993E-10	2.497E-10	3.748E-10	5.105E-10	6.490E-10
9.44575E-01	3.076E-10	4.101E-10	5.755E-10	7.415E-10	9.069E-10
9.89401E-01	7.498E-10	9.462E-10	1.300E-09	1.585E-09	1.822E-09
TOTAL	1.203E-09	1.623E-09	2.527E-09	3.455E-09	4.336E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	2.048E-10	1.799E-10	9.197E-11	3.846E-11	1.501E-11
-9.89401E-01	2.061E-10	1.812E-10	9.299E-11	3.921E-11	1.552E-11
-9.44575E-01	2.114E-10	1.863E-10	9.681E-11	4.173E-11	1.700E-11
-8.65631E-01	2.210E-10	1.954E-10	1.029E-10	4.532E-11	1.919E-11
-7.55044E-01	2.339E-10	2.074E-10	1.098E-10	4.862E-11	2.061E-11
-6.17876E-01	2.507E-10	2.28E-10	1.177E-10	5.141E-11	2.130E-11
-4.58017E-01	2.730E-10	2.434E-10	1.282E-10	5.488E-11	2.203E-11
-2.81605E-01	3.034E-10	2.720E-10	1.439E-10	6.106E-11	2.408E-11
9.50125E-02	3.453E-10	3.124E-10	1.678E-10	7.175E-11	2.852E-11
9.50125E-02	4.023E-10	3.687E-10	2.033E-10	8.835E-11	3.561E-11
2.81605E-01	4.793E-10	4.468E-10	2.533E-10	1.128E-10	4.555E-11
4.58017E-01	5.832E-10	5.599E-10	3.368E-10	1.508E-10	6.066E-11
6.17876E-01	7.243E-10	7.104E-10	4.582E-10	2.172E-10	8.928E-11
7.55044E-01	9.175E-10	9.312E-10	6.636E-10	3.432E-10	1.517E-10
8.65631E-01	1.184E-09	1.245E-09	9.997E-10	5.834E-10	2.892E-10
9.44575E-01	1.580E-09	1.656E-09	1.519E-09	1.010E-09	5.706E-10
9.89401E-01	2.531E-09	2.622E-09	2.360E-09	1.701E-09	1.067E-09
TOTAL	6.524E-09	6.329E-09	4.247E-09	2.252E-09	1.082E-09

5.108E-09 6.159E-09

1800.0

5.809E-12  
6.119E-12  
7.039E-12  
8.118E-12  
8.865E-12  
8.829E-12  
8.790E-12  
9.565E-12  
1.138E-11  
1.442E-11  
1.828E-11  
2.355E-11  
3.456E-11  
6.219E-11  
1.317E-10  
2.933E-10  
6.116E-10  
5.000E-10

## THERMUNUCLEAR SOURCE

4 P1 K\*22 FLUENCE AT 75.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4581	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E-01	1.50E-01	1.32E-05	1.087E-05	9.62E-06	9.62E-06	1.33E-05	1.29E-05	4.43E-06	9.58E-07
1.00E-01	1.22E-01	5.30E-05	5.58E-05	5.56E-05	6.35E-05	6.97E-05	1.44E-04	1.56E-04	1.45E-04
8.15E-02	1.00E-01	1.80E-04	1.79E-04	1.65E-04	1.51E-04	1.43E-04	1.44E-04	1.56E-04	1.65E-04
6.36E-02	8.15E-02	1.63E-04	1.59E-04	1.53E-04	1.49E-04	1.51E-04	1.61E-04	1.81E-04	2.09E-04
4.97E-02	6.36E-02	2.22E-04	2.18E-04	2.15E-04	2.10E-04	2.32E-04	2.58E-04	2.88E-04	3.42E-04
4.07E-02	4.97E-02	3.78E-04	3.90E-04	4.07E-04	4.30E-04	4.60E-04	4.96E-04	5.42E-04	6.14E-04
3.01E-02	4.07E-02	6.50E-04	6.51E-04	6.54E-04	6.68E-04	6.73E-04	6.95E-04	7.30E-04	7.84E-04
2.46E-02	3.01E-02	1.45E-03	1.45E-03	1.47E-03	1.46E-03	1.43E-03	1.44E-03	1.45E-03	1.56E-03
2.35E-02	2.46E-02	2.08E-03	2.05E-03	2.01E-03	1.97E-03	1.94E-03	1.94E-03	2.04E-03	2.15E-03
1.83E-02	2.35E-02	1.58E-03	1.58E-03	1.58E-03	1.61E-03	1.65E-03	1.76E-03	1.91E-03	2.13E-03
1.11E-02	1.83E-02	2.84E-03	2.87E-03	2.94E-03	3.05E-03	3.21E-03	3.45E-03	3.77E-03	4.24E-03
5.50E-02	1.11E-02	8.35E-03	8.42E-03	8.57E-03	8.81E-03	9.17E-03	9.69E-03	1.04E-02	1.14E-02
1.11E-01	5.50E-02	2.50E-02	2.51E-02	2.58E-02	2.67E-02	2.80E-02	2.98E-02	3.17E-02	3.45E-02
3.35E-02	1.11E-01	7.12E-01	7.21E-01	7.37E-01	7.60E-01	7.93E-01	8.36E-01	8.93E-01	9.67E-01
5.83E-04	3.35E-02	8.85E-01	8.94E-01	9.12E-01	9.36E-01	9.71E-01	1.01E-01	1.07E-01	1.14E-01
1.01E-04	5.83E-04	5.09E-01	5.13E-01	5.21E-01	5.34E-01	5.49E-01	5.70E-01	5.95E-01	6.26E-01
2.90E-05	1.01E-04	1.91E-02	1.92E-02	1.95E-02	1.98E-02	2.03E-02	2.09E-02	2.16E-02	2.25E-02
1.07E-03	2.90E-05	4.81E-02	4.89E-02	4.99E-02	5.11E-02	5.26E-02	5.44E-02	5.64E-02	5.88E-02
3.06E-06	1.07E-03	1.08E-03	1.08E-03	1.09E-03	1.11E-03	1.12E-03	1.14E-03	1.17E-03	1.20E-03
1.12E-06	3.06E-06	2.56E-03	2.57E-03	2.58E-03	2.61E-03	2.67E-03	2.86E-03	3.13E-03	3.49E-03
4.14E-07	1.12E-06	5.09E-03	5.09E-03	5.09E-03	5.12E-03	5.17E-03	5.24E-03	5.31E-03	5.39E-03
0.0	4.14E-07	6.64E-03	6.63E-03	6.67E-03	6.74E-03	6.80E-03	6.87E-03	6.94E-03	7.03E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4581	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E-01	1.50E-01	5.87E-05	5.68E-05	1.22E-04	7.62E-04	9.24E-04	9.65E-04	9.12E-04	1.69E-04
1.00E-01	1.22E-01	2.82E-04	3.45E-04	4.22E-04	5.95E-04	1.18E-03	4.87E-03	4.71E-03	1.58E-03
8.15E-02	1.00E-01	2.42E-04	3.06E-04	4.88E-04	8.22E-04	1.15E-03	2.94E-03	3.39E-03	1.07E-03
6.36E-02	8.15E-02	2.68E-04	3.33E-04	4.79E-04	8.75E-04	1.23E-03	3.06E-03	3.45E-03	1.12E-03
4.97E-02	6.36E-02	4.43E-04	5.53E-04	8.02E-04	1.46E-03	2.04E-03	4.82E-03	5.40E-03	1.77E-03
4.07E-02	4.97E-02	8.59E-04	9.03E-04	1.09E-03	1.74E-03	2.99E-03	8.28E-03	9.36E-03	2.61E-03
3.01E-02	4.07E-02	9.22E-04	1.17E-03	1.52E-03	2.51E-03	3.55E-03	1.00E-02	1.14E-02	3.38E-03
2.46E-02	3.01E-02	2.14E-03	2.80E-03	3.65E-03	3.73E-03	6.40E-03	1.81E-02	2.05E-02	5.96E-03
2.35E-02	2.46E-02	3.05E-03	3.13E-03	4.04E-03	6.07E-03	9.24E-03	2.47E-02	2.57E-02	6.23E-03
1.83E-02	2.35E-02	3.12E-03	3.37E-03	4.30E-03	6.35E-03	9.37E-03	2.50E-02	2.66E-02	8.25E-03
1.11E-02	1.83E-02	6.11E-03	6.49E-03	8.37E-03	1.21E-02	1.75E-02	4.26E-02	4.81E-02	1.37E-02
5.50E-02	1.11E-02	1.56E-02	1.64E-02	1.98E-02	3.04E-02	4.11E-02	6.48E-02	7.57E-02	3.05E-02
3.35E-02	5.50E-02	4.39E-02	5.30E-02	5.81E-02	6.74E-02	9.07E-02	1.48E-01	1.64E-01	6.08E-02
5.83E-04	3.35E-02	1.32E-02	1.33E-02	1.54E-02	1.62E-02	2.56E-02	2.85E-02	3.06E-02	1.42E-02
1.01E-04	5.83E-04	1.30E-02	2.09E-02	1.52E-02	1.70E-02	2.35E-02	2.94E-02	3.13E-02	1.78E-02
2.90E-05	1.01E-04	2.57E-02	2.50E-02	2.68E-02	3.06E-02	1.05E-02	1.12E-02	1.48E-02	9.12E-02
1.07E-03	2.90E-05	5.87E-02	6.11E-02	6.33E-02	6.57E-02	6.83E-02	7.02E-02	7.26E-02	3.04E-02
3.06E-06	1.07E-03	1.26E-03	1.29E-03	1.32E-03	1.36E-03	1.38E-03	1.41E-03	1.42E-03	1.54E-03
1.12E-06	3.06E-06	2.89E-03	2.95E-03	3.00E-03	3.05E-03	3.10E-03	3.13E-03	3.15E-03	3.55E-03
4.14E-07	1.12E-06	5.57E-03	5.66E-03	5.74E-03	5.82E-03	5.88E-03	5.93E-03	5.95E-03	6.85E-03
0.0	4.14E-07	7.11E-03	7.30E-03	7.38E-03	7.45E-03	7.51E-03	7.56E-03	7.58E-03	8.50E-03

## THERMONUCLEAR SOURCE

## 4 PI N\*\*2 FLUENCE AT 150.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.22E 01--1.50E 01	-4.961E-05	-4.961E-05	-1.576E-05	6.079E-06	1.256E-05	1.352E-05	-3.997E-06	-6.652E-06	3.967E-07
1.50E 01--1.22E 01	4.894E-05	4.894E-05	5.296E-05	5.834E-05	6.329E-05	7.010E-05	8.480E-05	1.142E-04	1.614E-04
8.19E 00--1.00E 01	1.926E-04	1.926E-04	1.821E-04	1.687E-04	1.558E-04	1.494E-04	1.551E-04	1.768E-04	2.141E-04
6.36E 00--8.19E 00	1.955E-04	1.955E-04	1.890E-04	1.835E-04	1.804E-04	1.849E-04	2.006E-04	2.292E-04	2.698E-04
4.97E 00--6.36E 00	2.883E-04	2.883E-04	2.845E-04	2.814E-04	2.884E-04	3.102E-04	3.492E-04	4.045E-04	4.730E-04
4.07E 00--4.97E 00	5.123E-04	5.123E-04	5.245E-04	5.469E-04	5.776E-04	6.165E-04	6.652E-04	7.262E-04	8.040E-04
3.01E 00--4.07E 00	8.270E-04	8.270E-04	8.276E-04	8.305E-04	8.383E-04	8.544E-04	8.828E-04	9.289E-04	1.001E-03
2.46E 00--3.01E 00	1.783E-03	1.783E-03	1.774E-03	1.775E-03	1.772E-03	1.778E-03	1.804E-03	1.868E-03	1.991E-03
2.35E 00--2.46E 00	2.576E-03	2.576E-03	2.544E-03	2.513E-03	2.490E-03	2.494E-03	2.547E-03	2.677E-03	2.915E-03
1.83E 00--2.35E 00	2.212E-03	2.212E-03	2.222E-03	2.247E-03	2.300E-03	2.397E-03	2.544E-03	2.791E-03	3.129E-03
1.11E 00--1.83E 00	4.019E-03	4.019E-03	4.079E-03	4.180E-03	4.342E-03	4.582E-03	4.918E-03	5.377E-03	5.944E-03
5.56E 01--1.11E 00	1.217E-02	1.217E-02	1.233E-02	1.259E-02	1.350E-02	1.539E-02	1.441E-02	1.553E-02	1.704E-02
1.11E 01--5.56E 01	3.910E-02	3.910E-02	3.956E-02	4.045E-02	4.178E-02	4.364E-02	4.600E-02	4.908E-02	5.302E-02
3.35E 02--1.11E 01	9.277E-01	9.277E-01	9.377E-01	9.570E-01	9.855E-01	1.024E 00	1.075E 00	1.134E 00	1.214E 00
5.83E 04--3.35E 02	1.118E 00	1.118E 00	1.131E 00	1.152E 00	1.161E 00	1.221E 00	1.272E 00	1.334E 00	1.400E 00
1.01E 04--5.83E 04	7.603E 01	7.603E 01	7.683E 01	7.807E 01	7.985E 01	8.224E 01	8.525E 01	8.891E 01	9.339E 01
2.90E 05--1.01E 04	3.362E 02	3.362E 02	3.394E 02	3.442E 02	3.513E 02	3.606E 02	3.722E 02	3.864E 02	4.033E 02
1.07E 05--2.90E 05	9.647E 02	9.647E 02	9.730E 02	9.857E 02	1.004E 03	1.028E 03	1.059E 03	1.093E 03	1.135E 03
3.06E 06--1.07E 05	2.472E 03	2.472E 03	2.490E 03	2.519E 03	2.560E 03	2.613E 03	2.679E 03	2.756E 03	2.846E 03
1.14E 06--3.06E 06	6.337E 03	6.337E 03	6.380E 03	6.446E 03	6.539E 03	6.661E 03	6.809E 03	6.984E 03	7.181E 03
4.14E 07--1.14E 06	1.325E 04	1.325E 04	1.333E 04	1.345E 04	1.363E 04	1.386E 04	1.413E 04	1.445E 04	1.482E 04
0.0	1.845E 04	1.847E 04	1.855E 04	1.870E 04	1.890E 04	1.917E 04	1.949E 04	1.985E 04	2.026E 04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	3.854E-05	3.711E-05	7.211E-05	7.128E-05	2.502E-04	5.212E-04	3.504E-03	5.816E-02	1.220E-02
1.50E 01--1.22E 01	2.695E-04	3.622E-04	2.739E-04	5.747E-04	6.758E-04	1.444E-03	3.293E-03	3.445E-02	1.072E-02
8.19E 00--1.00E 01	1.797E-04	3.326E-04	4.769E-04	3.812E-04	8.801E-04	1.198E-03	3.024E-03	2.613E-02	9.597E-03
6.36E 00--8.19E 00	2.366E-04	3.967E-04	5.364E-04	4.868E-04	9.596E-04	1.403E-03	3.299E-03	2.719E-02	1.064E-02
4.97E 00--6.36E 00	4.222E-04	6.796E-04	9.124E-04	8.691E-04	1.702E-03	2.364E-03	5.244E-03	4.043E-02	1.701E-02
4.07E 00--4.97E 00	6.938E-04	1.295E-03	9.889E-04	4.012E-03	2.011E-03	4.161E-03	7.174E-03	5.419E-02	2.552E-02
3.01E 00--4.07E 00	8.414E-04	1.325E-03	1.877E-03	1.730E-03	3.496E-03	4.666E-03	9.329E-03	6.016E-02	3.120E-02
2.46E 00--3.01E 00	1.674E-03	3.159E-03	2.515E-03	4.622E-03	5.511E-03	8.840E-03	1.629E-02	1.146E-01	5.955E-02
2.35E 00--2.46E 00	2.581E-03	4.702E-03	3.959E-03	7.402E-03	7.492E-03	1.426E-02	2.245E-02	1.708E-01	8.843E-02
1.83E 00--2.35E 00	2.856E-03	5.071E-03	4.326E-03	7.722E-03	7.772E-03	1.402E-02	2.129E-02	1.471E-01	8.525E-02
1.11E 00--1.83E 00	5.334E-03	9.581E-03	7.724E-03	1.420E-02	1.334E-02	2.442E-02	3.452E-02	1.803E-01	1.392E-01
5.50E 01--1.11E 00	1.542E-02	2.550E-02	2.180E-02	3.572E-02	3.441E-02	5.770E-02	7.588E-02	3.431E-01	3.448E-01
1.11E 01--5.50E 01	7.406E-02	5.352E-02	7.810E-02	7.830E-02	1.009E-01	1.128E-01	1.601E-01	3.484E-01	8.303E-01
3.35E 02--1.11E 01	2.017E 00	1.321E 00	1.486E 00	1.742E 00	2.090E 00	2.257E 00	2.532E 00	3.783E 00	1.648E 01
5.83E 04--3.35E 02	1.302E 00	1.341E 00	2.094E 00	1.797E 00	2.022E 00	2.400E 00	2.487E 00	2.910E 00	1.944E 01
1.01E 04--5.83E 04	8.292E 01	1.116E 02	1.097E 02	1.209E 02	1.254E 02	1.390E 02	1.442E 02	1.561E 02	1.254E 03
2.90E 05--1.01E 04	4.598E 02	4.519E 02	4.247E 02	5.494E 02	6.412E 02	5.910E 02	5.384E 02	6.047E 02	5.391E 03
1.07E 05--2.90E 05	1.171E 03	1.238E 03	1.269E 03	1.347E 03	1.410E 03	1.459E 03	1.513E 03	1.541E 03	1.450E 04
3.06E 06--1.07E 05	2.945E 03	3.053E 03	3.165E 03	3.281E 03	3.392E 03	3.491E 03	3.572E 03	3.621E 03	3.577E 04
1.12E 06--3.06E 06	7.399E 03	7.632E 03	7.871E 03	8.111E 03	8.335E 03	8.531E 03	8.689E 03	8.774E 03	8.269E 04
4.14E 07--1.12E 06	1.521E 04	1.563E 04	1.607E 04	1.647E 04	1.685E 04	1.718E 04	1.743E 04	1.758E 04	1.503E 05
0.0	2.071E 04	2.118E 04	2.165E 04	2.210E 04	2.252E 04	2.286E 04	2.312E 04	2.320E 04	2.591E 05

## THERMUNUCLEAR SOURCE

4 PI R\*\*2 FLUENCE AT 200.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9694	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8179	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2810	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	-4.214E-05	-3.444E-05	-1.265E-05	3.550E-05	1.126E-05	1.060E-05	-3.195E-06	-5.503E-06	1.772E-06
1.00E 01---1.22E 01	4.114E-05	4.242E-05	4.668E-05	5.228E-05	5.723E-05	6.368E-05	7.175E-05	1.056E-04	1.507E-04
8.19E 00---1.00E 01	1.744E-04	1.725E-04	1.540E-04	1.335E-04	1.135E-04	9.356E-05	7.472E-05	1.710E-04	2.104E-04
6.36E 00---8.19E 00	1.928E-04	1.915E-04	1.872E-04	1.817E-04	1.796E-04	1.856E-04	2.034E-04	2.347E-04	2.784E-04
4.97E 00---6.36E 00	2.973E-04	2.962E-04	2.935E-04	2.921E-04	3.011E-04	3.257E-04	3.686E-04	4.283E-04	5.021E-04
4.07E 00---4.97E 00	5.356E-04	5.388E-04	5.514E-04	5.745E-04	6.064E-04	6.471E-04	6.982E-04	7.626E-04	8.455E-04
3.01E 00---4.07E 00	8.456E-04	8.456E-04	8.461E-04	8.488E-04	8.568E-04	8.737E-04	9.038E-04	9.532E-04	1.031E-03
2.46E 00---3.01E 00	1.783E-03	1.782E-03	1.781E-03	1.778E-03	1.780E-03	1.793E-03	1.829E-03	1.906E-03	2.050E-03
2.35E 00---2.46E 00	2.580E-03	2.576E-03	2.561E-03	2.543E-03	2.538E-03	2.566E-03	2.649E-03	2.817E-03	3.104E-03
1.83E 00---2.35E 00	2.360E-03	2.363E-03	2.375E-03	2.411E-03	2.479E-03	2.594E-03	2.775E-03	3.043E-03	3.424E-03
1.11E 00---1.83E 00	4.312E-03	4.312E-03	4.366E-03	4.478E-03	4.655E-03	4.915E-03	5.279E-03	5.772E-03	6.435E-03
5.50E 01---1.11E 00	1.317E-02	1.321E-02	1.336E-02	1.366E-02	1.413E-02	1.480E-02	1.574E-02	1.698E-02	1.868E-02
1.11E 01---5.50E 01	4.303E-02	4.315E-02	4.366E-02	4.464E-02	4.608E-02	4.805E-02	5.063E-02	5.390E-02	5.797E-02
3.35E 02---1.11E 01	9.117E-01	9.133E-01	9.229E-01	9.413E-01	9.682E-01	1.005E 00	1.024E 00	1.111E 00	1.183E 00
5.83E 02---3.35E 02	1.086E 00	1.088E 00	1.098E 00	1.117E 00	1.144E 00	1.181E 00	1.228E 00	1.286E 00	1.356E 00
1.01E 04---5.83E 02	7.717E 01	7.733E 01	7.798E 01	7.922E 01	8.101E 01	8.340E 01	8.641E 01	9.009E 01	9.453E 01
2.90E 05---1.01E 04	3.577E 02	3.584E 02	3.611E 02	3.664E 02	3.740E 02	3.840E 02	3.965E 02	4.116E 02	4.291E 02
1.07E 05---2.90E 05	1.074E 03	1.076E 03	1.064E 03	1.099E 03	1.120E 03	1.148E 03	1.183E 03	1.225E 03	1.273E 03
3.06E 06---1.07E 05	2.902E 03	2.907E 03	2.926E 03	2.963E 03	3.015E 03	3.083E 03	3.168E 03	3.268E 03	3.384E 03
1.12E 06---3.06E 06	7.734E 03	7.746E 03	7.794E 03	7.884E 03	8.011E 03	8.178E 03	8.383E 03	8.625E 03	8.901E 03
4.14E 07---1.12E 06	1.671E 04	1.673E 04	1.683E 04	1.701E 04	1.726E 04	1.759E 04	1.800E 04	1.847E 04	1.901E 04
6.00E 07---4.14E 07	2.401E 04	2.404E 04	2.416E 04	2.439E 04	2.470E 04	2.511E 04	2.560E 04	2.617E 04	2.681E 04

ENERGY GROUP	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2810	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01---1.50E 01	1.766E-05	4.964E-05	5.793E-05	8.508E-05	2.266E-04	7.837E-04	2.888E-03	4.371E-02	9.456E-03
1.00E 01---1.22E 01	1.849E-04	2.978E-04	3.368E-04	4.846E-04	7.301E-04	1.329E-03	3.177E-03	2.752E-02	9.224E-03
8.19E 00---1.00E 01	3.084E-04	2.837E-04	4.342E-04	6.094E-04	9.561E-04	1.294E-03	2.896E-03	2.155E-02	8.914E-03
6.36E 00---8.19E 00	3.763E-04	3.590E-04	5.232E-04	8.094E-04	1.261E-03	1.541E-03	3.265E-03	2.302E-02	1.021E-02
4.97E 00---6.36E 00	6.593E-04	6.372E-04	9.134E-04	1.381E-03	2.571E-03	3.966E-03	5.164E-03	3.348E-02	1.645E-02
4.07E 00---4.97E 00	1.071E-03	1.011E-03	1.444E-03	1.688E-03	2.571E-03	3.966E-03	7.435E-03	4.310E-02	2.452E-02
3.01E 00---4.07E 00	1.306E-03	1.223E-03	1.786E-03	2.133E-03	3.246E-03	4.889E-03	8.917E-03	4.564E-02	2.936E-02
2.46E 00---3.01E 00	2.576E-03	2.435E-03	3.534E-03	4.117E-03	6.160E-03	8.952E-03	1.647E-02	9.560E-02	5.814E-02
2.35E 00---2.46E 00	3.937E-03	3.512E-03	5.610E-03	6.667E-03	9.763E-03	1.403E-02	2.488E-02	1.473E-01	8.939E-02
1.83E 00---2.35E 00	4.360E-03	4.335E-03	6.045E-03	6.990E-03	9.849E-03	1.349E-02	2.253E-02	1.161E-01	8.522E-02
1.11E 00---1.83E 00	8.169E-03	7.799E-03	1.081E-02	1.205E-02	1.568E-02	2.193E-02	3.482E-02	1.317E-01	1.370E-01
5.50E 01---1.11E 00	2.301E-02	2.216E-02	2.953E-02	3.236E-02	4.599E-02	5.401E-02	8.007E-02	2.575E-01	3.549E-01
1.11E 01---5.50E 01	5.313E-02	7.735E-02	7.131E-02	9.331E-02	9.721E-02	1.230E-01	1.474E-01	2.626E-01	8.846E-01
3.35E 02---1.11E 01	1.370E 00	1.324E 00	1.501E 00	1.678E 00	1.784E 00	2.049E 00	2.287E 00	2.704E 00	1.688E 01
5.83E 02---3.35E 02	1.585E 00	1.475E 00	1.635E 00	1.800E 00	1.932E 00	2.112E 00	2.138E 00	2.387E 00	1.863E 01
1.01E 04---5.83E 02	1.116E 02	9.786E 01	1.164E 02	1.147E 02	1.283E 02	1.315E 02	1.412E 02	1.454E 02	1.276E 03
2.90E 05---1.01E 04	4.197E 02	4.866E 02	4.905E 02	5.269E 02	5.507E 02	5.757E 02	6.070E 02	6.137E 02	5.689E 03
1.07E 05---2.90E 05	1.338E 03	1.385E 03	1.459E 03	1.521E 03	1.593E 03	1.653E 03	1.707E 03	1.740E 03	1.676E 04
3.06E 06---1.07E 05	3.514E 03	3.654E 03	3.803E 03	3.954E 03	4.100E 03	4.232E 03	4.337E 03	4.401E 03	4.414E 04
1.12E 06---3.06E 06	9.207E 03	9.536E 03	9.879E 03	1.022E 04	1.055E 04	1.083E 04	1.105E 04	1.119E 04	1.154E 05
4.14E 07---1.12E 06	1.960E 04	2.023E 04	2.088E 04	2.152E 04	2.216E 04	2.264E 04	2.303E 04	2.327E 04	2.454E 05
6.00E 07---4.14E 07	2.752E 04	2.826E 04	2.902E 04	2.976E 04	3.044E 04	3.102E 04	3.145E 04	3.171E 04	3.443E 05



## THERMONUCLEAR SOURCE

4 PI R\*2 FLUENCE AT 300.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01---1.50E 01	-2.765E-05	-2.208E-05	-7.502E-06	1.510E-06	1.241E-05	5.267E-06	-3.183E-06	-3.992E-06	2.513E-06
1.00E 01---1.22E 01	2.762E-05	2.898E-05	3.287E-05	3.794E-05	4.213E-05	4.717E-05	5.797E-05	8.017E-05	1.161E-04
8.19E 00---1.00E 01	1.279E-04	1.267E-04	1.223E-04	1.153E-04	1.094E-04	1.087E-04	1.181E-04	1.409E-04	1.771E-04
6.36E 00---8.19E 00	1.622E-04	1.622E-04	1.589E-04	1.548E-04	1.488E-04	1.423E-04	1.808E-04	2.116E-04	2.536E-04
4.97E 00---6.36E 00	2.731E-04	2.714E-04	2.694E-04	2.704E-04	2.812E-04	3.068E-04	3.407E-04	4.074E-04	4.781E-04
4.07E 00---4.97E 00	5.052E-04	5.080E-04	5.195E-04	5.408E-04	5.702E-04	6.081E-04	6.561E-04	7.169E-04	7.955E-04
3.01E 00---4.07E 00	7.631E-04	7.631E-04	7.631E-04	7.631E-04	7.631E-04	7.631E-04	7.631E-04	7.631E-04	7.631E-04
2.46E 00---3.01E 00	1.545E-03	1.545E-03	1.545E-03	1.545E-03	1.545E-03	1.545E-03	1.545E-03	1.545E-03	1.545E-03
2.35E 00---2.46E 00	2.253E-03	2.253E-03	2.253E-03	2.253E-03	2.253E-03	2.253E-03	2.253E-03	2.253E-03	2.253E-03
1.83E 00---2.35E 00	2.268E-03	2.272E-03	2.292E-03	2.337E-03	2.417E-03	2.545E-03	2.738E-03	3.016E-03	3.404E-03
1.11E 00---1.83E 00	4.122E-03	4.135E-03	4.190E-03	4.301E-03	4.475E-03	4.728E-03	5.078E-03	5.548E-03	6.172E-03
5.56E 01---1.11E 00	1.280E-02	1.284E-02	1.305E-02	1.332E-02	1.381E-02	1.451E-02	1.545E-02	1.673E-02	1.841E-02
1.11E 01---5.56E 01	4.279E-02	4.291E-02	4.341E-02	4.437E-02	4.578E-02	4.770E-02	5.019E-02	5.333E-02	5.724E-02
3.35E 02---1.11E 01	7.523E-01	7.541E-01	7.615E-01	7.755E-01	7.958E-01	8.232E-01	8.580E-01	9.008E-01	9.521E-01
5.83E 04---3.35E 02	8.665E-01	8.682E-01	8.756E-01	8.893E-01	9.091E-01	9.354E-01	9.684E-01	1.008E 01	1.055E 01
1.01E 04---5.83E 04	6.339E 01	6.351E 01	6.402E 01	6.498E 01	6.636E 01	6.820E 01	7.048E 01	7.322E 01	7.638E 01
2.90E 05---1.01E 04	3.066E 02	3.072E 02	3.095E 02	3.140E 02	3.203E 02	3.288E 02	3.395E 02	3.519E 02	3.667E 02
1.07E 05---2.90E 05	9.618E 02	9.635E 02	9.708E 02	9.843E 02	1.004E 03	1.029E 03	1.061E 03	1.099E 03	1.143E 03
3.66E 06---1.07E 05	2.763E 03	2.768E 03	2.788E 03	2.825E 03	2.878E 03	2.947E 03	3.033E 03	3.136E 03	3.254E 03
1.12E 06---3.66E 06	7.734E 03	7.747E 03	7.800E 03	7.899E 03	8.039E 03	8.224E 03	8.452E 03	8.722E 03	9.031E 03
4.14E 07---1.12E 06	1.750E 04	1.752E 04	1.764E 04	1.785E 04	1.815E 04	1.855E 04	1.904E 04	1.961E 04	2.027E 04
0.0 ---4.14E 07	2.635E 04	2.639E 04	2.654E 04	2.682E 04	2.722E 04	2.774E 04	2.838E 04	2.913E 04	2.998E 04

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
1.22E 01---1.50E 01	2.127E-05	3.655E-05	4.983E-05	7.289E-05	1.946E-04	6.255E-04	2.104E-03	2.447E-02	5.717E-03
1.00E 01---1.22E 01	1.691E-04	2.105E-04	2.617E-04	3.724E-04	5.966E-04	1.126E-03	2.594E-03	1.732E-02	6.612E-03
8.19E 00---1.00E 01	2.128E-04	2.87E-04	3.405E-04	4.685E-04	6.845E-04	1.205E-03	2.536E-03	1.511E-02	7.035E-03
6.36E 00---8.19E 00	2.947E-04	3.773E-04	4.494E-04	6.139E-04	8.924E-04	1.511E-03	2.996E-03	1.616E-02	8.563E-03
4.97E 00---6.36E 00	5.452E-04	6.846E-04	8.172E-04	1.108E-03	1.574E-03	2.529E-03	4.669E-03	2.256E-02	1.400E-02
4.07E 00---4.97E 00	8.721E-04	1.079E-03	1.272E-03	1.705E-03	2.367E-03	3.689E-03	6.501E-03	2.729E-02	2.059E-02
3.01E 00---4.07E 00	1.016E-03	1.279E-03	1.520E-03	2.065E-03	2.846E-03	4.328E-03	7.266E-03	2.634E-02	4.366E-02
2.46E 00---3.01E 00	2.055E-03	2.561E-03	3.098E-03	4.178E-03	5.720E-03	8.658E-03	1.480E-02	6.545E-02	4.968E-02
2.35E 00---2.46E 00	3.383E-03	4.280E-03	5.242E-03	7.054E-03	9.645E-03	1.440E-02	2.426E-02	1.085E-01	8.111E-02
1.83E 00---2.35E 00	3.834E-03	4.767E-03	5.643E-03	7.267E-03	9.366E-03	1.311E-02	2.020E-02	7.314E-02	7.582E-02
1.11E 00---1.83E 00	6.752E-03	8.302E-03	9.456E-03	1.185E-02	1.465E-02	1.955E-02	2.796E-02	7.300E-02	1.173E-01
5.56E 01---1.11E 00	2.001E-02	2.400E-02	2.705E-02	3.293E-02	3.955E-02	5.062E-02	6.837E-02	1.529E-01	3.223E-01
1.11E 01---5.56E 01	6.564E-02	6.523E-02	7.688E-02	8.181E-02	9.533E-02	1.062E-01	1.253E-01	1.630E-01	8.407E-01
3.35E 02---1.11E 01	9.638E-01	1.115E 01	1.148E 01	1.278E 01	1.550E 01	1.835E 01	1.578E 01	1.697E 01	1.306E 01
5.83E 04---3.35E 02	1.024E 02	1.220E 02	1.211E 02	1.342E 02	1.375E 02	1.483E 02	1.527E 02	1.589E 02	1.405E 02
1.01E 04---5.83E 04	7.277E 01	8.833E 01	8.629E 01	9.590E 01	9.702E 01	1.044E 02	1.063E 02	1.101E 02	1.009E 02
2.90E 05---1.01E 04	4.022E 02	3.920E 02	4.276E 02	4.369E 02	4.661E 02	4.785E 02	4.986E 02	5.057E 02	4.848E 02
1.07E 05---2.90E 05	1.487E 03	1.251E 03	1.305E 03	1.369E 03	1.425E 03	1.481E 03	1.528E 03	1.551E 03	1.502E 03
3.66E 06---1.07E 05	3.386E 03	3.531E 03	3.684E 03	3.839E 03	4.012E 03	4.123E 03	4.228E 03	4.293E 03	4.255E 03
1.12E 06---3.66E 06	9.374E 03	9.750E 03	1.014E 04	1.053E 04	1.091E 04	1.124E 04	1.150E 04	1.165E 04	1.176E 05
4.14E 07---1.12E 06	2.099E 04	2.178E 04	2.259E 04	2.340E 04	2.416E 04	2.483E 04	2.535E 04	2.565E 04	2.631E 05
0.0 ---4.14E 07	3.092E 04	3.192E 04	3.295E 04	3.397E 04	3.493E 04	3.575E 04	3.638E 04	3.675E 04	3.872E 05

4 PI K\*\*2 FLUENCE AT 400.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

[illegible]

## THERMONUCLEAR SOURCE

4 PI \*\*\*2 FLUENCE AT 500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
GROUP (MEV)	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.22E 01	-9.525E-06	-7.753E-06	-2.362E-06	1.341E-06	4.998E-06	1.532E-06	1.594E-06	-1.238E-06	2.270E-06
1.00E 01	1.093E-05	1.160E-05	1.388E-05	1.876E-05	1.896E-05	2.133E-05	2.642E-05	3.720E-05	5.486E-05
8.19E 00	5.723E-05	5.694E-05	5.78E-05	5.397E-05	5.278E-05	5.431E-05	6.124E-05	7.557E-05	9.742E-05
6.36E 00	9.180E-05	9.136E-05	8.994E-05	8.871E-05	9.014E-05	9.665E-05	1.102E-04	1.315E-04	1.597E-04
4.97E 00	1.752E-04	1.749E-04	1.744E-04	1.767E-04	1.859E-04	2.050E-04	2.350E-04	2.748E-04	3.231E-04
3.80E 00	3.360E-04	3.398E-04	3.472E-04	3.608E-04	3.799E-04	4.050E-04	4.369E-04	4.779E-04	5.317E-04
3.01E 00	4.799E-04	4.797E-04	4.797E-04	4.812E-04	4.859E-04	4.964E-04	5.157E-04	5.478E-04	5.989E-04
2.46E 00	6.094E-04	6.131E-04	6.131E-04	6.197E-04	6.326E-04	6.569E-04	6.901E-04	7.375E-04	7.977E-04
2.35E 00	1.344E-03	1.346E-03	1.346E-03	1.377E-03	1.419E-03	1.490E-03	1.604E-03	1.778E-03	2.038E-03
1.83E 00	1.549E-03	1.549E-03	1.569E-03	1.610E-03	1.676E-03	1.778E-03	1.925E-03	2.132E-03	2.417E-03
1.11E 00	2.775E-03	2.784E-03	2.823E-03	2.900E-03	3.018E-03	3.189E-03	3.423E-03	3.735E-03	4.143E-03
5.5E-01	8.652E-03	8.652E-03	8.813E-03	9.049E-03	9.404E-03	9.906E-03	1.058E-02	1.147E-02	1.264E-02
1.11E-01	2.957E-02	2.957E-02	2.991E-02	3.057E-02	3.151E-02	3.280E-02	3.445E-02	3.651E-02	3.902E-02
4.13E-01	4.142E-01	4.178E-01	4.245E-01	4.245E-01	4.344E-01	4.474E-01	4.637E-01	4.835E-01	5.067E-01
4.501E-01	4.509E-01	4.542E-01	4.603E-01	4.603E-01	4.692E-01	4.808E-01	4.952E-01	5.124E-01	5.322E-01
3.232E-01	3.261E-01	3.261E-01	3.304E-01	3.304E-01	3.365E-01	3.446E-01	3.546E-01	3.665E-01	3.801E-01
1.566E-01	1.569E-01	1.569E-01	1.580E-01	1.600E-01	1.629E-01	1.668E-01	1.715E-01	1.771E-01	1.835E-01
4.976E-02	4.984E-02	5.019E-02	5.084E-02	5.084E-02	5.175E-02	5.296E-02	5.445E-02	5.622E-02	5.825E-02
1.471E-01	1.474E-01	1.474E-01	1.503E-01	1.503E-01	1.530E-01	1.565E-01	1.608E-01	1.659E-01	1.718E-01
4.240F-03	4.247E-03	4.276E-03	4.329E-03	4.329E-03	4.404E-03	4.504E-03	4.626E-03	4.770E-03	4.935E-03
9.924E-03	9.924E-03	9.924E-03	1.011E-02	1.011E-02	1.029E-02	1.051E-02	1.079E-02	1.112E-02	1.150E-02
1.550E-04	1.552E-04	1.552E-04	1.561E-04	1.579E-04	1.603E-04	1.635E-04	1.674E-04	1.720E-04	1.773E-04
ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR	
GROUP (MEV)	MU=0.2816	MU=-0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	FLUX	
1.22E 01	1.081E-05	1.898E-05	4.043E-05	1.064E-04	3.268E-04	9.979E-04	7.627E-03	2.072E-03	
1.00E 01	7.781E-05	1.035E-04	1.885E-04	3.120E-04	6.143E-04	1.393E-03	6.876E-03	3.018E-03	
8.19E 00	1.252E-04	2.617E-04	2.763E-04	4.301E-04	7.713E-04	1.601E-03	6.878E-03	3.826E-03	
6.36E 00	1.942E-04	3.608E-04	4.112E-04	6.249E-04	1.060E-03	2.046E-03	7.717E-03	5.171E-03	
4.97E 00	4.581E-04	5.741E-04	7.695E-04	1.115E-03	1.755E-03	3.073E-03	1.006E-02	8.647E-03	
3.812E-04	7.132E-04	8.796E-04	1.150E-03	1.604E-03	2.400E-03	3.949E-03	1.095E-02	1.239E-02	
6.654E-04	8.025E-04	9.944E-04	1.294E-03	1.762E-03	2.521E-03	3.876E-03	9.057E-03	1.344E-02	
7.783E-04	1.681E-03	2.130E-03	2.830E-03	3.952E-03	5.866E-03	9.659E-03	2.970E-02	3.356E-02	
1.681E-03	2.986E-03	3.832E-03	5.131E-03	7.198E-03	1.072E-02	1.732E-02	5.669E-02	5.411E-02	
2.420E-03	5.339E-03	4.071E-03	5.096E-03	6.571E-03	8.822E-03	1.274E-02	2.976E-02	7.116E-02	
2.806E-03	3.373E-03	6.874E-03	7.509E-03	9.158E-03	1.147E-02	1.498E-02	2.507E-02	4.896E-02	
4.674E-03	1.413E-02	1.857E-02	2.182E-02	2.644E-02	3.171E-02	3.981E-02	6.000E-02	2.072E-01	
1.608E-02	4.558E-02	4.984E-02	5.462E-02	6.610E-02	7.604E-02	7.233E-02	7.910E-02	5.05E-01	
4.211E-02	5.651E-01	5.959E-01	6.325E-01	6.670E-01	7.020E-01	7.304E-01	7.502E-01	6.763E-01	
5.307E-01	5.83E-04	6.032E-01	6.337E-01	6.567E-01	6.822E-01	6.995E-01	7.118E-01	6.969E-01	
1.01E-04	4.158E-01	4.282E-01	4.497E-01	4.644E-01	4.818E-01	4.927E-01	5.009E-01	4.964E-02	
2.90E-05	1.975E-02	2.071E-02	2.144E-02	2.230E-02	2.295E-02	2.353E-02	2.384E-02	2.395E-03	
1.07E-06	6.299E-02	6.552E-02	6.815E-02	7.059E-02	7.280E-02	7.450E-02	7.553E-02	2.237E-03	
3.06E-06	1.854E-03	1.926E-03	2.003E-03	2.073E-03	2.135E-03	2.183E-03	2.212E-03	2.237E-04	
1.12E-06	5.317E-03	5.523E-03	5.729E-03	5.924E-03	6.095E-03	6.227E-03	6.305E-03	6.417E-04	
4.14E-07	1.236E-04	1.283E-04	1.329E-04	1.373E-04	1.411E-04	1.441E-04	1.458E-04	1.453E-05	
0.0	1.894E-04	1.895E-04	2.022E-04	2.082E-04	2.134E-04	2.174E-04	2.198E-04	2.254E-05	

## THERMONUCLEAR SOURCE

4 PI R\*\*2 FLUENCE AT 600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.2E-01	MU=-1.0000	MU=-C.9894	MU=-C.9446	MU=-C.8656	MU=-C.7550	MU=-C.6179	MU=-C.4580	MU=-C.2616	MU=-C.0950
1.4E-01	-5.476E-06	-4.455E-06	-1.304E-06	9.347E-07	2.977E-06	8.315E-07	-9.728E-07	-5.794E-07	1.781E-06
1.6E-01	6.614E-06	7.682E-06	1.067E-05	1.067E-05	1.215E-05	1.368E-05	1.697E-05	2.405E-05	3.569E-05
1.8E-01	3.666E-05	3.655E-05	3.609E-05	3.535E-05	3.503E-05	3.651E-05	4.171E-05	5.207E-05	6.775E-05
2.0E-01	6.495E-05	6.468E-05	6.381E-05	6.325E-05	6.474E-05	7.006E-05	8.060E-05	9.683E-05	1.182E-04
2.2E-01	1.316E-04	1.316E-04	1.314E-04	1.336E-04	1.411E-04	1.561E-04	1.792E-04	2.097E-04	2.467E-04
2.4E-01	2.589E-04	2.589E-04	2.644E-04	2.746E-04	2.890E-04	3.080E-04	3.323E-04	3.636E-04	4.049E-04
2.6E-01	3.567E-04	3.566E-04	3.567E-04	3.578E-04	3.614E-04	3.694E-04	3.841E-04	4.086E-04	4.474E-04
2.8E-01	6.585E-04	6.591E-04	6.626E-04	6.683E-04	6.800E-04	7.010E-04	7.375E-04	7.983E-04	8.954E-04
3.0E-01	9.793E-04	9.815E-04	9.913E-04	1.013E-03	1.051E-03	1.102E-03	1.208E-03	1.350E-03	1.560E-03
3.2E-01	1.181E-03	1.185E-03	1.202E-03	1.235E-03	1.289E-03	1.370E-03	1.487E-03	1.650E-03	1.873E-03
3.4E-01	2.110E-03	2.117E-03	2.147E-03	2.205E-03	2.296E-03	2.425E-03	2.602E-03	2.837E-03	3.143E-03
3.6E-01	6.569E-03	6.591E-03	6.685E-03	6.888E-03	7.142E-03	7.529E-03	8.047E-03	8.729E-03	9.612E-03
3.8E-01	2.244E-02	2.250E-02	2.276E-02	2.326E-02	2.397E-02	2.494E-02	2.618E-02	2.772E-02	2.959E-02
4.0E-01	2.949E-01	2.955E-01	2.980E-01	3.026E-01	3.092E-01	3.181E-01	3.291E-01	3.423E-01	3.578E-01
4.2E-01	3.151E-01	3.157E-01	3.179E-01	3.219E-01	3.278E-01	3.355E-01	3.449E-01	3.561E-01	3.690E-01
4.4E-01	2.232E-01	2.236E-01	2.251E-01	2.279E-01	2.319E-01	2.372E-01	2.436E-01	2.513E-01	2.601E-01
4.6E-01	1.073E-02	1.075E-02	1.082E-02	1.095E-02	1.114E-02	1.138E-02	1.168E-02	1.204E-02	1.243E-02
4.8E-01	3.393E-02	3.398E-02	3.471E-02	3.463E-02	3.522E-02	3.599E-02	3.694E-02	3.807E-02	3.935E-02
5.0E-01	9.959E-02	1.001E-02	1.008E-02	1.020E-02	1.037E-02	1.066E-02	1.108E-02	1.121E-02	1.158E-02
5.2E-01	2.878E-03	2.883E-03	2.901E-03	2.936E-03	2.985E-03	3.049E-03	3.127E-03	3.220E-03	3.326E-03
5.4E-01	6.730E-03	6.740E-03	6.784E-03	6.863E-03	6.976E-03	7.124E-03	7.304E-03	7.518E-03	7.761E-03
5.6E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
5.8E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
6.0E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
6.2E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
6.4E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
6.6E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
6.8E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
7.0E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
7.2E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
7.4E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
7.6E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
7.8E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
8.0E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
8.2E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
8.4E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
8.6E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
8.8E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
9.0E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
9.2E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
9.4E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
9.6E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
9.8E-01	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04
1.0E-00	1.054E-04	1.056E-04	1.062E-04	1.073E-04	1.090E-04	1.111E-04	1.136E-04	1.166E-04	1.201E-04

ENERGY

GROUP (MEV)

C.0950

7.299E-06

5.081E-05

8.767E-05

1.445E-04

2.916E-04

4.619E-04

5.078E-04

1.046E-03

1.866E-03

2.178E-03

3.540E-03

5.075E-02

1.11E-01

3.182E-02

3.758E-01

5.83E-04

1.01E-04

2.90E-05

1.07E-05

3.06E-06

1.12E-06

4.14E-07

0.0

SCALAR

FLUX

1.239E-03

1.972E-03

2.701E-03

3.830E-03

4.462E-03

6.922E-03

9.499E-03

1.982E-02

4.148E-02

3.698E-02

1.542E-02

3.892E-02

5.601E-02

4.138E-01

4.741E-00

4.812E-00

3.384E-02

1.616E-03

5.110E-03

1.503E-03

4.312E-04

1.005E-05

1.551E-05

## THERMONUCLEAR SOURCE

## 4 RI R\*2 FLUENCE AT 900.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01---1.50E 01	MU=-1.00G0	MU=-G.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-G.6179	MU=-0.4580	MU=-G.2816	MU=-0.0950
1.00E 01---1.22E 01	-9.943E-07	-8.066E-07	-2.148E-07	2.344E-07	5.740E-07	1.356E-07	-1.741E-07	-5.271E-09	5.955E-07
1.00E 01---1.22E 01	1.368E-06	1.503E-06	1.963E-06	2.526E-06	2.915E-06	3.281E-06	4.081E-06	5.668E-06	8.450E-06
8.19E 00---1.00E 01	8.862E-06	8.897E-06	9.004E-06	9.134E-06	9.348E-06	1.003E-05	1.177E-05	1.509E-05	2.010E-05
6.36E 00---8.19E 00	2.057E-05	2.051E-05	2.037E-05	2.042E-05	2.134E-05	2.361E-05	2.775E-05	3.391E-05	4.193E-05
4.97E 00---6.36E 00	4.908E-05	4.906E-05	4.924E-05	5.042E-05	5.369E-05	5.978E-05	6.888E-05	8.071E-05	9.504E-05
3.01E 00---4.97E 00	9.889E-05	9.938E-05	1.014E-04	1.052E-04	1.106E-04	1.178E-04	1.271E-04	1.391E-04	1.553E-04
2.46E 00---3.01E 00	1.294E-04	1.294E-04	1.295E-04	1.299E-04	1.313E-04	1.343E-04	1.398E-04	1.491E-04	1.638E-04
1.83E 00---2.46E 00	2.245E-04	2.249E-04	2.265E-04	2.299E-04	2.358E-04	2.457E-04	2.621E-04	2.881E-04	3.285E-04
1.18E 00---1.83E 00	3.395E-04	3.409E-04	3.467E-04	3.585E-04	3.775E-04	4.064E-04	4.490E-04	5.106E-04	5.993E-04
5.50E-01---1.18E 00	4.537E-04	4.554E-04	4.629E-04	4.777E-04	5.009E-04	5.350E-04	5.829E-04	6.491E-04	7.391E-04
1.01E-04---5.50E-01	8.011E-04	8.038E-04	8.152E-04	8.375E-04	8.716E-04	9.205E-04	9.867E-04	1.074E-03	1.187E-03
1.11E-01---1.01E-04	2.459E-03	2.457E-03	2.504E-03	2.574E-03	2.680E-03	2.827E-03	3.023E-03	3.280E-03	3.609E-03
3.35E-02---1.11E-01	8.421E-03	8.444E-03	8.541E-03	8.722E-03	8.985E-03	9.340E-03	9.791E-03	1.035E-02	1.102E-02
5.83E-04---3.35E-02	1.009E-01	1.011E-01	1.019E-01	1.033E-01	1.054E-01	1.081E-01	1.115E-01	1.156E-01	1.202E-01
1.01E-04---5.83E-04	1.046E-01	1.047E-01	1.054E-01	1.066E-01	1.084E-01	1.106E-01	1.134E-01	1.166E-01	1.203E-01
2.90E-05---1.01E-04	7.221E 00	7.232E 00	7.276E 00	7.356E 00	7.471E 00	7.621E 00	7.803E 00	8.016E 00	8.256E 00
1.07E-05---2.90E-05	3.413E 01	3.417E 01	3.438E 01	3.475E 01	3.527E 01	3.595E 01	3.678E 01	3.775E 01	3.884E 01
3.06E-06---1.07E-05	1.065E 02	1.067E 02	1.073E 02	1.084E 02	1.101E 02	1.122E 02	1.148E 02	1.178E 02	1.212E 02
1.12E-06---3.06E-06	8.800E 02	8.812E 02	8.863E 02	8.955E 02	9.087E 02	9.257E 02	9.464E 02	9.707E 02	9.978E 02
4.14E-07---1.12E-06	2.038E 03	2.041E 03	2.053E 03	2.074E 03	2.104E 03	2.143E 03	2.190E 03	2.245E 03	2.307E 03
0.0 ---4.14E-07	3.159E 03	3.163E 03	3.180E 03	3.211E 03	3.254E 03	3.309E 03	3.375E 03	3.453E 03	3.540E 03

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01---1.50E 01	MU=G.0950	MU=C.2816	MU=0.4580	MU=0.6179	MU=G.7550	MU=0.8656	MU=0.9446	MU=G.9894	2.585E-04
1.00E 01---1.22E 01	1.891E-06	3.681E-06	4.249E-06	7.724E-06	2.038E-05	5.797E-05	1.602E-04	7.423E-04	2.585E-04
8.19E 00---1.00E 01	1.273E-05	1.717E-05	2.298E-05	3.421E-05	6.089E-05	1.247E-04	2.786E-04	9.311E-04	5.110E-04
6.36E 00---8.19E 00	2.648E-05	3.425E-05	4.531E-05	6.586E-05	1.100E-04	2.070E-04	4.275E-04	1.316E-03	8.634E-04
4.97E 00---6.36E 00	5.183E-05	6.487E-05	8.518E-05	1.221E-04	1.937E-04	3.346E-04	6.240E-04	1.647E-03	1.399E-03
3.01E 00---4.97E 00	1.128E-04	1.372E-04	1.752E-04	2.388E-04	3.478E-04	5.373E-04	8.036E-04	1.944E-03	2.408E-03
2.46E 00---3.01E 00	1.778E-04	2.116E-04	2.616E-04	3.406E-04	4.653E-04	6.540E-04	9.939E-04	1.815E-03	3.308E-03
1.83E 00---2.46E 00	3.900E-04	4.825E-04	6.234E-04	8.366E-04	1.172E-03	1.718E-03	2.690E-03	5.758E-03	8.125E-03
1.18E 00---1.83E 00	7.276E-04	9.165E-04	1.202E-03	1.647E-03	2.363E-03	3.577E-03	5.864E-03	1.387E-02	1.625E-02
5.50E-01---1.18E 00	8.610E-04	1.175E-03	1.745E-03	2.548E-03	3.788E-03	5.232E-03	7.378E-03	5.278E-02	1.353E-02
1.01E-04---5.50E-01	1.331E-03	1.543E-03	2.111E-03	3.035E-03	4.396E-03	6.285E-03	9.055E-03	4.053E-02	1.666E-02
3.35E-02---1.01E-04	4.027E-03	5.553E-03	7.755E-03	1.087E-02	1.605E-02	2.215E-02	3.055E-02	1.120E-02	5.624E-02
5.83E-04---3.35E-02	1.181E-02	1.272E-02	1.375E-02	1.487E-02	1.605E-02	1.721E-02	1.823E-02	1.893E-02	1.517E-01
1.01E-04---5.83E-04	1.254E-01	1.310E-01	1.369E-01	1.429E-01	1.486E-01	1.537E-01	1.574E-01	1.600E-01	1.574E 00
1.01E-04---5.83E-04	1.243E-01	1.286E-01	1.330E-01	1.373E-01	1.413E-01	1.447E-01	1.473E-01	1.489E-01	1.555E 00
2.90E-05---1.01E-04	8.518E 00	8.798E 00	9.081E 00	9.359E 00	9.616E 00	9.836E 00	1.000E 01	1.010E 01	1.045E 02
1.07E-05---2.90E-05	4.004E 01	4.129E 01	4.257E 01	4.382E 01	4.497E 01	4.595E 01	4.669E 01	4.712E 01	5.606E 02
3.06E-06---1.07E-05	1.249E 02	1.268E 02	1.288E 02	1.306E 02	1.402E 02	1.433E 02	1.456E 02	1.469E 02	1.562E 03
4.14E-07---1.12E-06	3.618E 02	3.729E 02	3.843E 02	3.954E 02	4.055E 02	4.142E 02	4.208E 02	4.246E 02	4.523E 03
0.0 ---4.14E-07	1.027E 03	1.059E 03	1.092E 03	1.121E 03	1.150E 03	1.174E 03	1.203E 03	1.230E 03	1.285E 04
	2.375E 03	2.446E 03	2.519E 03	2.589E 03	2.653E 03	2.709E 03	2.750E 03	2.774E 03	2.969E 04
	3.635E 03	3.736E 03	3.838E 03	3.937E 03	4.026E 03	4.104E 03	4.161E 03	4.194E 03	4.547E 04

## THERMONUCLEAR SOURCE

## 4 PI R\*\*2 FLUENCE AT 1200.0 METERS

ENERGY		ANGLE 1		ANGLE 2		ANGLE 3		ANGLE 4		ANGLE 5		ANGLE 6		ANGLE 7		ANGLE 8		ANGLE 9	
GROUP (MEV)		MU=0.0950		MU=0.0989		MU=0.0946		MU=0.0656		MU=0.7550		MU=0.6179		MU=0.4550		MU=0.2616		MU=0.0950	
1.2E 01	1.50E 01	1.277E-07	1.749E-07	1.415E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.0E 01	1.22E 01	2.928E-06	3.996E-06	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
8.19E 00	1.00E 01	7.212E-06	9.492E-06	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
6.36E 00	8.19E 00	1.662E-05	2.114E-05	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
4.97E 00	6.36E 00	3.860E-05	4.728E-05	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
3.01E 00	4.97E 00	6.058E-05	7.204E-05	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
2.46E 00	3.01E 00	1.294E-04	1.614E-04	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
2.35E 00	2.46E 00	2.479E-04	3.152E-04	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.83E 00	2.35E 00	2.966E-04	3.527E-04	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.11E 00	1.83E 00	4.449E-04	5.404E-04	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
5.50E 01	1.11E 00	1.332E-03	1.501E-03	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.11E 01	5.50E 01	3.863E-03	4.149E-03	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
3.35E 02	1.11E 01	3.973E-02	4.139E-02	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
5.83E 04	3.35E 02	3.904E-02	4.028E-02	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.01E 04	5.83E 04	2.652E 00	2.731E 00	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
2.90E 05	1.01E 04	1.238E 01	1.238E 01	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.07E 05	2.90E 05	3.843E 01	3.952E 01	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
3.06E 06	1.07E 05	1.105E 02	1.136E 02	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
1.12E 06	3.06E 06	3.122E 02	3.208E 02	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
4.14E 07	1.12E 06	7.178E 02	7.372E 02	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08
0.0	4.14E 07	1.092E 03	1.119E 03	2.657E-07	3.50E-08	4.925E-08	1.442E-07	1.641E-07	6.461E-07	1.542E-07	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08	1.542E-08	2.433E-08

## THERMONUCLEAR SOURCE

4 PI R\*\*2 FLUENCE AT 1500.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01	MU=0.0000	MU=C.9894	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.1950	MU=-0.1950
1.00E 01	-3.036E-08	-2.451E-C8	9.633E-09	1.866E-08	4.664E-09	-3.068E-09	5.225E-09	3.799E-C8	3.799E-C8
1.00E 01	4.934E-08	5.727E-08	8.451E-08	1.165E-07	1.368E-07	1.532E-07	2.819E-07	4.375E-07	4.375E-07
8.19E 00	4.315E-07	4.404E-07	4.710E-07	5.097E-07	5.464E-07	5.835E-07	6.208E-07	6.581E-07	6.581E-07
6.36E 00	1.636E-06	1.636E-06	1.645E-06	1.689E-06	1.815E-06	2.077E-06	2.350E-06	2.623E-06	2.623E-06
4.97E 00	5.159E-06	5.159E-06	5.205E-06	5.374E-06	5.772E-06	6.471E-06	7.471E-06	8.759E-06	1.033E-05
4.07E 00	1.071E-05	1.071E-05	1.097E-05	1.136E-05	1.193E-05	1.269E-05	1.368E-05	1.499E-05	1.677E-05
3.01E 00	1.306E-05	1.306E-05	1.337E-05	1.382E-05	1.439E-05	1.535E-05	1.681E-05	1.888E-05	2.166E-05
2.46E 00	2.116E-05	2.116E-05	2.143E-05	2.188E-05	2.244E-05	2.389E-05	2.584E-05	2.887E-05	3.345E-05
2.35E 00	3.269E-05	3.269E-05	3.368E-05	3.524E-05	3.763E-05	4.115E-05	4.619E-05	5.338E-05	6.364E-05
1.83E 00	4.822E-05	4.844E-05	4.936E-05	5.115E-05	5.389E-05	5.785E-05	6.331E-05	7.077E-05	8.083E-05
1.11E 00	8.486E-05	8.514E-05	8.636E-05	8.871E-05	9.231E-05	9.744E-05	1.043E-04	1.134E-04	1.249E-04
5.50E-01	2.536E-04	2.545E-04	2.584E-04	2.658E-04	2.767E-04	2.920E-04	3.122E-04	3.384E-04	3.717E-04
3.35E-02	8.572E-04	8.594E-04	8.871E-04	9.132E-04	9.483E-04	9.925E-04	1.047E-03	1.111E-03	1.181E-03
5.83E-04	1.009E-02	1.010E-02	1.015E-02	1.027E-02	1.043E-02	1.063E-02	1.087E-02	1.115E-02	1.147E-02
1.01E-04	6.899E-01	6.899E-01	6.937E-01	7.008E-01	7.108E-01	7.239E-01	7.396E-01	7.574E-01	7.782E-01
2.90E-05	3.230E 00	3.234E 00	3.251E 00	3.283E 00	3.329E 00	3.387E 00	3.458E 00	3.540E 00	3.631E 00
1.07E-05	1.002E 01	1.002E 01	1.008E 01	1.018E 01	1.032E 01	1.050E 01	1.072E 01	1.102E 01	1.125E 01
3.06E-06	2.882E 01	2.886E 01	2.901E 01	2.929E 01	2.968E 01	3.019E 01	3.081E 01	3.152E 01	3.231E 01
1.12E-06	8.147E 01	8.157E 01	8.200E 01	8.277E 01	8.386E 01	8.528E 01	8.698E 01	8.896E 01	9.115E 01
4.14E-07	1.874E 02	1.876E 02	1.886E 02	1.903E 02	1.928E 02	1.960E 02	1.999E 02	2.043E 02	2.093E 02
0.0	2.878E 02	2.882E 02	2.896E 02	2.921E 02	2.957E 02	3.002E 02	3.055E 02	3.117E 02	3.185E 02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01	MU=0.0950	MU=C.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.032E-05
1.00E 01	8.942E-08	1.420E-07	2.155E-07	4.326E-07	1.109E-06	2.911E-06	7.292E-06	2.279E-05	2.877E-05
1.00E 01	6.433E-07	8.899E-07	1.253E-06	2.018E-06	3.845E-06	8.059E-06	1.742E-05	4.457E-05	7.086E-05
8.19E 00	1.862E-06	2.495E-06	3.480E-06	5.467E-06	9.865E-06	1.944E-05	3.994E-05	9.774E-05	1.453E-04
6.36E 00	5.021E-06	6.484E-06	8.914E-06	1.347E-05	2.228E-05	3.904E-05	7.076E-05	1.464E-04	2.556E-04
4.97E 00	1.234E-05	1.519E-05	1.969E-05	2.716E-05	3.957E-05	5.990E-05	9.299E-05	1.573E-04	3.301E-04
4.07E 00	1.927E-05	2.294E-05	2.843E-05	3.668E-05	4.892E-05	6.755E-05	9.193E-05	1.295E-04	3.010E-04
3.01E 00	1.891E-05	2.218E-05	2.860E-05	3.315E-05	4.137E-05	5.230E-05	6.511E-05	7.932E-05	8.125E-04
2.46E 00	4.031E-05	5.054E-05	6.586E-05	8.504E-05	1.245E-04	1.797E-04	2.688E-04	4.518E-04	1.805E-03
2.35E 00	7.845E-05	1.004E-04	1.341E-04	1.876E-04	2.758E-04	4.267E-04	7.018E-04	1.395E-03	1.463E-03
1.83E 00	9.434E-05	1.124E-04	1.363E-04	1.679E-04	2.089E-04	2.618E-04	3.284E-04	4.158E-04	1.912E-03
1.11E 00	1.395E-04	1.576E-04	1.798E-04	2.066E-04	2.376E-04	2.719E-04	3.060E-04	3.336E-04	5.619E-03
5.50E-01	4.133E-04	4.647E-04	5.273E-04	6.019E-04	6.879E-04	7.818E-04	8.747E-04	9.667E-04	1.511E-02
3.35E-02	1.187E-03	1.272E-03	1.366E-03	1.466E-03	1.566E-03	1.660E-03	1.737E-03	1.785E-03	1.510E-01
5.83E-04	1.206E-02	1.255E-02	1.305E-02	1.354E-02	1.400E-02	1.440E-02	1.470E-02	1.488E-02	1.478E-01
1.01E-04	1.181E-02	1.217E-02	1.254E-02	1.289E-02	1.321E-02	1.348E-02	1.368E-02	1.380E-02	9.995E 00
2.90E-05	8.003E-01	8.233E-01	8.464E-01	8.687E-01	8.888E-01	9.059E-01	9.185E-01	9.259E-01	4.658E 01
1.07E-05	3.730E 00	3.832E 00	3.935E 00	4.034E 00	4.123E 00	4.198E 00	4.254E 00	4.286E 00	1.443E 02
3.06E-06	1.156E 01	1.187E 01	1.219E 01	1.249E 01	1.276E 01	1.299E 01	1.316E 01	1.326E 01	4.142E 02
1.12E-06	3.317E 01	3.405E 01	3.494E 01	3.580E 01	3.657E 01	3.721E 01	3.769E 01	3.797E 01	1.068E 03
4.14E-07	9.351E 01	9.596E 01	9.842E 01	1.008E 02	1.029E 02	1.047E 02	1.060E 02	1.068E 02	2.680E 03
0.0	2.146E 02	2.201E 02	2.257E 02	2.309E 02	2.357E 02	2.397E 02	2.427E 02	2.444E 02	3.671E 02

## THERMONUCLEAR SOURCE

4 PI A\*\*2 FLUENCE AT 1800.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0030	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
1.00E 01--1.50E 01	-5.240E-09	-4.221E-07	-9.216E-07	1.822E-09	3.307E-09	9.212E-10	-2.573E-10	1.579E-09	8.096E-09
1.00E 01--1.22E 01	8.820E-08	1.660E-08	1.671E-08	2.380E-08	2.812E-08	3.139E-08	3.918E-08	5.664E-08	9.234E-08
8.19E 00--1.00E 01	9.060E-08	9.341E-08	1.032E-07	1.153E-07	1.259E-07	1.411E-07	1.736E-07	2.372E-07	3.361E-07
6.36E 00--8.19E 00	4.374E-07	4.381E-07	4.429E-07	4.593E-07	5.001E-07	5.800E-07	7.113E-07	8.995E-07	1.145E-06
4.97E 00--6.36E 00	1.557E-06	1.559E-06	1.575E-06	1.631E-06	1.756E-06	1.971E-06	2.278E-06	2.671E-06	3.152E-06
4.07E 00--4.97E 00	3.261E-06	3.270E-06	3.335E-06	3.456E-06	3.626E-06	3.856E-06	4.157E-06	4.557E-06	5.099E-06
3.01E 00--4.07E 00	3.886E-06	3.887E-06	3.890E-06	3.907E-06	3.953E-06	4.031E-06	4.228E-06	4.502E-06	4.971E-06
2.46E 00--3.01E 00	6.186E-06	6.202E-06	6.272E-06	6.415E-06	6.656E-06	7.044E-06	7.649E-06	8.579E-06	9.981E-06
2.35E 00--2.46E 00	9.619E-06	9.679E-06	9.933E-06	1.042E-05	1.116E-05	1.225E-05	1.380E-05	1.601E-05	1.916E-05
1.83E 00--2.35E 00	1.452E-05	1.459E-05	1.488E-05	1.543E-05	1.629E-05	1.751E-05	1.919E-05	2.148E-05	2.455E-05
1.11E 00--1.83E 00	2.559E-05	2.567E-05	2.604E-05	2.675E-05	2.783E-05	2.938E-05	3.145E-05	3.416E-05	3.762E-05
5.00E 01--1.11E 00	7.592E-05	7.620E-05	7.736E-05	7.956E-05	8.285E-05	8.743E-05	9.346E-05	1.013E-04	1.111E-04
1.11E 01--5.00E 01	2.548E-04	2.555E-04	2.584E-04	2.637E-04	2.714E-04	2.817E-04	2.947E-04	3.106E-04	3.295E-04
4.35E 02--1.11E 01	2.914E-03	2.919E-03	2.941E-03	2.979E-03	3.035E-03	3.107E-03	3.196E-03	3.301E-03	3.419E-03
5.83E 04--3.35E 02	2.974E-03	2.978E-03	2.995E-03	3.027E-03	3.072E-03	3.130E-03	3.202E-03	3.282E-03	3.373E-03
1.01E 04--5.83E 04	2.028E-01	2.031E-01	2.042E-01	2.063E-01	2.092E-01	2.129E-01	2.175E-01	2.227E-01	2.286E-01
2.90E 05--1.01E 04	9.513E-01	9.513E-01	9.545E-01	9.656E-01	9.787E-01	9.956E-01	1.016E 00	1.039E 00	1.066E 00
1.07E 05--2.90E 05	2.945E 00	2.949E 00	2.964E 00	2.993E 00	3.033E 00	3.085E 00	3.147E 00	3.220E 00	3.300E 00
3.06E 06--1.07E 05	8.467E 00	8.477E 00	8.522E 00	8.602E 00	8.715E 00	8.862E 00	9.038E 00	9.243E 00	9.469E 00
1.12E 06--3.06E 06	2.392E 01	2.395E 01	2.407E 01	2.429E 01	2.461E 01	2.501E 01	2.550E 01	2.607E 01	2.669E 01
4.14E 07--1.12E 06	5.498E 01	5.504E 01	5.532E 01	5.582E 01	5.653E 01	5.745E 01	5.856E 01	5.983E 01	6.125E 01
0.0 --4.14E 07	8.436E 01	8.446E 01	8.487E 01	8.561E 01	8.663E 01	8.791E 01	8.944E 01	9.120E 01	9.314E 01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.00E 01--1.50E 01	1.802E-08	2.666E-08	4.525E-08	9.333E-08	2.357E-07	6.044E-07	1.450E-06	4.007E-06	1.999E-06
1.00E 01--1.22E 01	1.374E-07	1.928E-07	2.783E-07	4.629E-07	9.024E-07	1.900E-06	4.047E-06	9.531E-06	6.460E-06
8.19E 00--1.00E 01	4.664E-07	6.360E-07	9.100E-07	1.479E-06	2.748E-06	5.496E-06	1.125E-05	2.572E-05	1.508E-05
6.36E 00--8.19E 00	1.915E-06	1.915E-06	2.685E-06	4.142E-06	6.946E-06	1.222E-05	2.190E-05	4.226E-05	4.382E-05
4.97E 00--6.36E 00	3.772E-06	4.661E-06	6.072E-06	8.402E-06	1.222E-05	1.835E-05	2.792E-05	4.399E-05	7.748E-05
4.07E 00--4.97E 00	5.867E-06	6.986E-06	8.648E-06	1.111E-05	1.460E-05	1.974E-05	2.647E-05	3.502E-05	1.004E-04
3.01E 00--4.07E 00	5.840E-06	6.600E-06	7.937E-06	9.740E-06	1.201E-05	1.494E-05	1.815E-05	2.120E-05	8.600E-05
2.46E 00--3.01E 00	1.207E-05	1.518E-05	1.982E-05	2.680E-05	3.737E-05	5.357E-05	7.874E-05	1.236E-04	2.403E-04
2.35E 00--2.46E 00	3.049E-05	3.049E-05	4.095E-05	5.774E-05	8.559E-05	1.335E-04	2.200E-04	4.182E-04	5.531E-04
1.83E 00--2.35E 00	2.867E-05	3.416E-05	4.140E-05	5.084E-05	6.292E-05	7.804E-05	9.611E-05	1.164E-04	4.395E-04
1.11E 00--1.83E 00	4.155E-05	4.732E-05	5.382E-05	6.161E-05	7.047E-05	7.998E-05	8.906E-05	9.581E-05	5.709E-04
5.00E 01--1.11E 00	1.234E-04	1.385E-04	1.568E-04	1.783E-04	2.027E-04	2.286E-04	2.533E-04	2.716E-04	1.667E-03
1.11E 01--5.00E 01	3.513E-04	3.760E-04	4.031E-04	4.316E-04	4.600E-04	4.862E-04	5.074E-04	5.204E-04	4.463E-03
3.35E 02--1.11E 01	3.550E-03	3.689E-03	3.831E-03	3.972E-03	4.102E-03	4.213E-03	4.280E-03	4.347E-03	4.440E-02
5.83E 04--3.35E 02	3.472E-03	3.575E-03	3.678E-03	3.778E-03	3.869E-03	3.945E-03	4.002E-03	4.036E-03	4.335E-02
1.01E 04--5.83E 04	2.349E-01	2.414E-01	2.460E-01	2.543E-01	2.600E-01	2.649E-01	2.684E-01	2.705E-01	2.933E 00
2.90E 05--1.01E 04	1.094E 00	1.123E 00	1.152E 00	1.180E 00	1.205E 00	1.227E 00	1.242E 00	1.251E 00	1.366E 01
1.07E 05--2.90E 05	3.387E 00	3.476E 00	3.566E 00	3.652E 00	3.729E 00	3.794E 00	3.842E 00	3.870E 00	4.229E 01
3.06E 06--1.07E 05	9.713E 00	9.965E 00	1.022E 01	1.046E 01	1.068E 01	1.086E 01	1.099E 01	1.107E 01	1.213E 02
1.12E 06--3.06E 06	2.737E 01	2.806E 01	2.876E 01	2.942E 01	3.002E 01	3.052E 01	3.089E 01	3.110E 01	3.417E 02
4.14E 07--1.12E 06	6.276E 01	6.433E 01	6.590E 01	6.739E 01	6.873E 01	6.986E 01	7.069E 01	7.117E 01	7.638E 02
0.0 --4.14E 07	9.525E 01	9.745E 01	9.965E 01	1.017E 02	1.036E 02	1.051E 02	1.062E 02	1.069E 02	1.190E 03



## THERMONUCLEAR SOURCE

4 PI R\*2 FLUENCE AT 75.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.1000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.1550
8.00E-00---1.00E-01	2.025E-03	2.035E-03	2.077E-05	2.155E-05	2.270E-05	2.425E-05	2.630E-05	2.904E-05	3.273E-05
6.50E-00---8.00E-00	8.645E-05	8.699E-05	9.297E-05	9.377E-05	9.847E-05	1.057E-04	1.153E-04	1.281E-04	1.455E-04
5.00E-00---6.50E-00	3.385E-04	3.404E-04	3.477E-04	3.611E-04	3.797E-04	4.037E-04	4.343E-04	4.746E-04	5.283E-04
4.00E-00---5.00E-00	1.809E-04	1.828E-04	1.895E-04	2.012E-04	2.156E-04	2.323E-04	2.525E-04	2.788E-04	3.152E-04
3.00E-00---4.00E-00	1.173E-04	1.225E-04	1.791E-04	1.894E-04	2.021E-04	2.164E-04	2.334E-04	2.554E-04	2.854E-04
2.50E-00---3.00E-00	3.477E-04	3.505E-04	3.791E-04	3.791E-04	4.036E-04	4.343E-04	4.738E-04	5.268E-04	6.000E-04
2.00E-00---2.50E-00	2.761E-04	2.721E-04	2.798E-04	2.934E-04	3.115E-04	3.341E-04	3.632E-04	4.026E-04	4.568E-04
1.66E-00---2.00E-00	3.487E-04	3.502E-04	3.561E-04	3.682E-04	3.869E-04	4.140E-04	4.520E-04	5.040E-04	5.747E-04
1.33E-00---1.66E-00	4.716E-04	4.725E-04	4.784E-04	4.911E-04	5.135E-04	5.487E-04	5.997E-04	6.698E-04	7.640E-04
1.00E-00---1.33E-00	2.880E-04	2.865E-04	2.823E-04	2.797E-04	2.855E-04	3.045E-04	3.376E-04	3.834E-04	4.421E-04
8.00E-01---1.00E-01	1.820E-04	1.807E-04	1.770E-04	1.749E-04	1.803E-04	1.963E-04	2.221E-04	2.577E-04	3.084E-04
6.00E-01---8.00E-01	4.468E-04	4.542E-04	4.612E-04	4.612E-04	4.775E-04	5.015E-04	5.320E-04	5.726E-04	6.245E-04
4.00E-01---6.00E-01	9.581E-04	9.635E-04	9.832E-04	1.020E-03	1.071E-03	1.144E-03	1.250E-03	1.406E-03	1.625E-03
3.00E-01---4.00E-01	1.230E-03	1.231E-03	1.243E-03	1.287E-03	1.390E-03	1.569E-03	1.818E-03	2.117E-03	2.496E-03
2.00E-01---3.00E-01	4.173E-03	4.190E-03	4.250E-03	4.351E-03	4.468E-03	4.686E-03	4.970E-03	5.341E-03	5.806E-03
1.00E-01---2.00E-01	8.614E-03	8.623E-03	8.658E-03	8.729E-03	8.836E-03	8.990E-03	9.189E-03	9.441E-03	9.753E-03
5.00E-02---1.00E-01	1.691E-02	1.693E-02	1.699E-02	1.710E-02	1.726E-02	1.748E-02	1.774E-02	1.805E-02	1.841E-02
2.00E-02---5.00E-02	4.607E-03	4.609E-03	4.617E-03	4.632E-03	4.654E-03	4.682E-03	4.716E-03	4.756E-03	4.801E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=1.0984	SCALAR FLUX
8.00E-00---1.00E-01	3.686E-05	4.762E-05	5.543E-05	6.352E-05	1.066E-04	1.526E-04	2.468E-04	6.907E-04	7.712E-04
6.50E-00---8.00E-00	1.641E-04	1.734E-04	3.763E-04	3.081E-04	3.941E-04	7.208E-04	1.284E-03	3.390E-03	3.628E-03
5.00E-00---6.50E-00	5.844E-04	7.336E-04	8.460E-04	9.588E-04	1.504E-03	2.097E-03	3.270E-03	8.637E-03	1.125E-02
4.00E-00---5.00E-00	3.548E-04	4.617E-04	5.400E-04	6.193E-04	1.030E-03	1.482E-03	2.391E-03	6.496E-03	7.421E-03
3.00E-00---4.00E-00	3.189E-04	4.001E-04	5.414E-04	6.948E-04	6.789E-04	1.017E-03	1.803E-03	4.709E-03	6.233E-03
2.50E-00---3.00E-00	6.782E-04	1.200E-03	1.147E-03	1.300E-03	1.591E-03	2.962E-03	5.259E-03	1.346E-02	1.509E-02
2.00E-00---2.50E-00	5.166E-04	6.677E-04	9.374E-04	1.231E-03	1.214E-03	1.876E-03	3.646E-03	8.635E-03	1.079E-02
1.66E-00---2.00E-00	6.501E-04	1.158E-03	8.933E-04	1.136E-03	1.991E-03	2.920E-03	4.660E-03	1.211E-02	1.417E-02
1.33E-00---1.66E-00	8.634E-04	1.553E-03	1.188E-03	1.518E-03	2.680E-03	3.923E-03	6.211E-03	1.604E-02	1.890E-02
1.00E-00---1.33E-00	5.062E-04	6.632E-04	9.606E-04	1.310E-03	1.408E-03	2.176E-03	3.907E-03	8.346E-03	1.113E-02
8.00E-01---1.00E-01	3.556E-04	4.496E-04	6.177E-04	8.408E-04	1.157E-03	1.589E-03	2.923E-03	6.989E-03	9.889E-03
6.00E-01---8.00E-01	1.048E-03	1.411E-03	2.024E-03	2.664E-03	3.865E-03	5.719E-03	9.687E-03	1.429E-02	2.129E-02
4.00E-01---6.00E-01	1.908E-03	2.268E-03	2.735E-03	3.211E-03	3.804E-03	4.615E-03	5.705E-03	7.560E-03	2.801E-02
3.00E-01---4.00E-01	2.748E-03	3.065E-03	3.430E-03	3.795E-03	4.262E-03	4.900E-03	5.705E-03	6.922E-03	3.491E-02
2.00E-01---3.00E-01	5.152E-03	5.414E-03	5.816E-03	6.277E-03	6.908E-03	7.808E-03	9.024E-03	1.097E-02	6.913E-02
1.00E-01---2.00E-01	1.013E-02	1.058E-02	1.110E-02	1.168E-02	1.234E-02	1.306E-02	1.383E-02	1.462E-02	1.300E-01
5.00E-02---1.00E-01	1.882E-02	1.926E-02	1.973E-02	2.021E-02	2.068E-02	2.112E-02	2.149E-02	2.175E-02	2.366E-01
2.00E-02---5.00E-02	4.850E-03	4.912E-03	4.956E-03	5.008E-03	5.057E-03	5.100E-03	5.132E-03	5.153E-03	6.086E-02

## THERMONUCLEAR SOURCE

4 PI R\*2 FLUENCE AT 150.0 METERS

[ GAMMAS/MEV/STERADIAN/SOURCE NEUTRON ]									
ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E-00	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8650	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2810	MU=-0.1950
8.00E-00	1.00E-01	2.838E-05	2.911E-05	3.046E-05	3.233E-05	3.477E-05	3.796E-05	4.222E-05	4.800E-05
8.50E-00	1.00E-01	1.047E-04	1.090E-04	1.152E-04	1.233E-04	1.333E-04	1.460E-04	1.632E-04	1.872E-04
9.00E-00	1.00E-01	5.397E-04	5.591E-04	5.865E-04	6.225E-04	6.688E-04	7.225E-04	7.959E-04	8.947E-04
9.50E-00	1.00E-01	2.366E-04	2.495E-04	2.732E-04	2.992E-04	3.251E-04	3.535E-04	3.911E-04	4.459E-04
1.00E-00	1.00E-01	2.624E-04	2.810E-04	3.045E-04	3.305E-04	3.567E-04	3.859E-04	4.244E-04	4.794E-04
1.50E-00	1.00E-01	3.909E-04	4.136E-04	4.434E-04	4.789E-04	5.190E-04	5.682E-04	6.266E-04	7.041E-04
2.00E-00	1.00E-01	3.434E-04	3.601E-04	3.833E-04	4.112E-04	4.440E-04	4.857E-04	5.366E-04	6.000E-04
2.50E-00	1.00E-01	4.270E-04	4.485E-04	4.855E-04	5.271E-04	5.749E-04	6.310E-04	6.965E-04	7.800E-04
3.00E-00	1.00E-01	5.801E-04	5.811E-04	6.131E-04	6.591E-04	7.111E-04	7.731E-04	8.466E-04	9.400E-04
3.50E-00	1.00E-01	4.015E-04	3.964E-04	3.647E-04	3.083E-04	2.477E-04	1.855E-04	1.285E-04	8.409E-04
4.00E-00	1.00E-01	3.046E-04	2.947E-04	2.824E-04	2.635E-04	2.377E-04	2.078E-04	1.693E-04	1.261E-04
4.50E-00	1.00E-01	5.402E-04	5.562E-04	5.835E-04	6.225E-04	6.755E-04	7.478E-04	8.366E-04	9.500E-04
5.00E-00	1.00E-01	1.803E-03	1.859E-03	1.940E-03	2.053E-03	2.219E-03	2.471E-03	2.856E-03	3.405E-03
5.50E-00	1.00E-01	2.396E-03	2.439E-03	2.571E-03	2.864E-03	3.354E-03	4.018E-03	4.866E-03	5.925E-03
6.00E-00	1.00E-01	8.990E-03	9.029E-03	9.467E-03	1.070E-02	1.237E-02	1.461E-02	1.743E-02	2.106E-02
6.50E-00	1.00E-01	2.212E-02	2.228E-02	2.253E-02	2.291E-02	2.343E-02	2.410E-02	2.495E-02	2.601E-02
7.00E-00	1.00E-01	5.068E-02	5.074E-02	5.146E-02	5.216E-02	5.307E-02	5.421E-02	5.559E-02	5.719E-02
7.50E-00	1.00E-01	1.450E-02	1.451E-02	1.454E-02	1.470E-02	1.463E-02	1.498E-02	1.516E-02	1.536E-02
SCALAR									
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	FLUX
8.00E-00	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9694	1.157E-03
8.50E-00	3.745E-05	8.656E-05	6.126E-05	1.274E-04	1.252E-04	2.334E-04	3.964E-04	1.159E-03	5.059E-03
9.00E-00	2.641E-04	2.242E-04	3.785E-04	4.122E-04	6.553E-04	1.056E-03	1.767E-03	5.551E-03	1.885E-02
9.50E-00	7.908E-04	1.458E-03	1.183E-03	2.069E-03	2.120E-03	3.542E-03	5.644E-03	1.478E-02	1.097E-02
1.00E-00	3.456E-04	8.229E-04	5.607E-04	1.211E-03	1.207E-03	2.268E-03	3.885E-03	1.082E-02	1.047E-02
1.50E-00	4.277E-04	7.943E-04	6.657E-04	1.104E-03	1.273E-03	1.968E-03	3.481E-03	8.062E-03	1.952E-02
2.00E-00	1.052E-03	8.912E-04	1.516E-03	1.558E-03	2.602E-03	3.866E-03	7.607E-03	2.069E-02	1.575E-02
2.50E-00	4.882E-04	1.157E-03	8.718E-04	1.676E-03	1.998E-03	3.281E-03	6.063E-03	1.400E-02	1.973E-02
3.00E-00	1.043E-03	9.612E-04	1.495E-03	1.709E-03	2.685E-03	4.258E-03	7.247E-03	1.889E-02	2.584E-02
3.50E-00	1.369E-03	1.174E-03	1.971E-03	2.273E-03	3.573E-03	5.637E-03	9.429E-03	2.416E-02	3.283E-02
4.00E-00	5.274E-04	1.215E-03	1.073E-03	2.039E-03	2.714E-03	3.924E-03	5.446E-03	1.974E-02	6.072E-02
4.50E-00	6.639E-04	9.966E-04	1.338E-03	1.961E-03	2.838E-03	3.924E-03	5.446E-03	1.974E-02	7.972E-02
5.00E-00	1.134E-03	2.706E-03	2.416E-03	4.258E-03	5.039E-03	7.056E-03	1.082E-02	1.319E-02	1.515E-01
5.50E-00	3.959E-03	5.113E-03	5.993E-03	7.205E-03	8.644E-03	1.039E-02	1.319E-02	2.417E-02	3.524E-01
6.00E-00	6.227E-03	7.127E-03	7.796E-03	8.785E-03	1.002E-02	1.155E-02	1.369E-02	2.417E-02	7.447E-01
6.50E-00	1.107E-02	1.200E-02	1.275E-02	1.394E-02	1.554E-02	1.743E-02	2.029E-02	2.417E-02	1.558E-01
7.00E-00	2.727E-02	2.881E-02	3.054E-02	3.260E-02	3.488E-02	3.742E-02	4.013E-02	4.354E-02	7.447E-01
7.50E-00	5.902E-02	6.106E-02	6.326E-02	6.560E-02	6.795E-02	7.021E-02	7.218E-02	7.354E-02	1.558E-01
8.00E-00	1.559E-02	1.564E-02	1.609E-02	1.635E-02	1.660E-02	1.681E-02	1.699E-02	1.709E-02	1.558E-01

## THERMONUCLEAR SOURCE

4 PI 2\*2 FLUENCE AT 200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.1000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9466	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E 00---1.00E 01	2.971E-05	2.994E-05	3.082E-05	3.242E-05	3.461E-05	3.740E-05	4.105E-05	4.596E-05	5.274E-05
6.50E 00---8.00E 00	1.036E-04	1.047E-04	1.089E-04	1.160E-04	1.250E-04	1.357E-04	1.491E-04	1.673E-04	1.931E-04
5.00E 00---6.50E 00	5.962E-04	6.014E-04	6.212E-04	6.558E-04	7.003E-04	7.541E-04	8.217E-04	9.119E-04	1.036E-03
4.00E 00---5.00E 00	2.317E-04	2.371E-04	2.565E-04	2.868E-04	3.182E-04	3.471E-04	3.772E-04	4.183E-04	4.610E-04
3.00E 00---4.00E 00	2.838E-04	2.893E-04	3.090E-04	3.388E-04	3.725E-04	4.038E-04	4.378E-04	4.843E-04	5.334E-04
2.50E 00---3.00E 00	3.726E-04	3.786E-04	4.002E-04	4.331E-04	4.700E-04	5.150E-04	5.641E-04	6.332E-04	7.357E-04
2.00E 00---2.50E 00	3.474E-04	3.518E-04	3.679E-04	3.942E-04	4.250E-04	4.601E-04	5.048E-04	5.681E-04	6.617E-04
1.66E 00---2.00E 00	4.290E-04	4.301E-04	4.522E-04	4.743E-04	5.000E-04	5.308E-04	5.662E-04	6.484E-04	7.595E-04
1.33E 00---1.66E 00	5.865E-04	5.847E-04	5.809E-04	5.830E-04	6.037E-04	6.526E-04	7.300E-04	8.441E-04	9.879E-04
1.00E 00---1.33E 00	4.274E-04	4.198E-04	3.962E-04	3.715E-04	3.727E-04	4.133E-04	4.899E-04	5.894E-04	7.056E-04
8.00E-01---1.00E 00	3.365E-04	3.334E-04	3.254E-04	3.248E-04	3.482E-04	4.013E-04	4.788E-04	5.745E-04	6.985E-04
6.00E-01---8.00E-01	5.296E-04	5.503E-04	6.245E-04	7.379E-04	8.498E-04	9.451E-04	1.041E-03	1.188E-03	1.456E-03
4.00E-01---6.00E-01	2.150E-03	2.165E-03	2.223E-03	2.377E-03	2.476E-03	2.697E-03	3.042E-03	3.573E-03	4.333E-03
3.00E-01---4.00E-01	2.909E-03	2.917E-03	2.978E-03	3.175E-03	3.599E-03	4.290E-03	5.209E-03	6.250E-03	7.291E-03
2.00E-01---3.00E-01	1.157E-02	1.157E-02	1.176E-02	1.205E-02	1.238E-02	1.270E-02	1.299E-02	1.332E-02	1.375E-02
1.00E-01---2.00E-01	2.996E-02	3.001E-02	3.021E-02	3.059E-02	3.116E-02	3.194E-02	3.295E-02	3.422E-02	3.579E-02
5.00E-02---1.00E-01	7.336E-02	7.346E-02	7.387E-02	7.465E-02	7.578E-02	7.727E-02	7.915E-02	8.141E-02	8.407E-02
2.00E-02---5.00E-02	2.144E-02	2.145E-02	2.151E-02	2.162E-02	2.177E-02	2.197E-02	2.222E-02	2.252E-02	2.286E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9466	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	7.127E-05	6.675E-05	1.014E-04	1.148E-04	1.723E-04	2.472E-04	4.667E-04	1.363E-03	1.333E-03
6.50E 00---8.00E 00	2.084E-04	3.021E-04	3.402E-04	4.916E-04	6.627E-04	1.103E-03	2.091E-03	6.380E-03	5.439E-03
5.00E 00---6.50E 00	1.325E-03	1.327E-03	1.499E-03	2.110E-03	2.956E-03	4.041E-03	6.920E-03	1.759E-02	2.263E-02
4.00E 00---5.00E 00	6.632E-04	6.190E-04	9.015E-04	1.071E-03	1.630E-03	2.396E-03	4.582E-03	1.262E-02	1.251E-02
3.00E 00---4.00E 00	7.188E-04	7.247E-04	1.015E-03	1.168E-03	1.671E-03	2.379E-03	4.210E-03	9.897E-03	1.265E-02
2.50E 00---3.00E 00	7.886E-04	1.174E-03	1.213E-03	1.923E-03	2.626E-03	3.703E-03	6.278E-03	2.316E-02	2.090E-02
2.00E 00---2.50E 00	9.221E-04	8.560E-04	1.338E-03	1.938E-03	2.449E-03	3.703E-03	6.943E-03	1.650E-02	1.781E-02
1.66E 00---2.00E 00	8.187E-04	1.200E-03	1.374E-03	2.040E-03	2.858E-03	4.730E-03	8.441E-03	2.095E-02	2.128E-02
1.33E 00---1.66E 00	1.057E-03	1.563E-03	1.799E-03	2.706E-03	3.799E-03	6.215E-03	1.083E-02	2.619E-02	2.759E-02
1.00E 00---1.33E 00	9.891E-04	9.903E-04	1.031E-03	2.162E-03	3.481E-03	5.183E-03	8.509E-03	1.622E-02	2.117E-02
8.00E-01---1.00E 00	9.199E-04	1.156E-03	1.798E-03	2.599E-03	3.805E-03	5.293E-03	7.272E-03	1.001E-02	2.055E-02
6.00E-01---8.00E-01	2.197E-03	2.348E-03	3.753E-03	4.564E-03	6.480E-03	8.338E-03	1.218E-02	2.144E-02	3.861E-02
4.00E-01---6.00E-01	5.395E-03	6.447E-03	7.911E-03	9.507E-03	1.115E-02	1.336E-02	1.673E-02	2.196E-02	7.758E-02
3.00E-01---4.00E-01	8.317E-03	9.144E-03	1.023E-02	1.139E-02	1.304E-02	1.504E-02	1.767E-02	2.100E-02	1.035E-01
2.00E-01---3.00E-01	1.447E-02	1.518E-02	1.551E-02	1.792E-02	1.996E-02	2.236E-02	2.569E-02	3.017E-02	1.941E-01
1.00E-01---2.00E-01	3.769E-02	3.992E-02	4.255E-02	4.554E-02	4.890E-02	5.255E-02	5.638E-02	5.983E-02	4.872E-01
5.00E-02---1.00E-01	8.711E-02	9.051E-02	9.422E-02	9.814E-02	1.021E-01	1.059E-01	1.093E-01	1.116E-01	1.101E 01
2.00E-02---5.00E-02	2.324E-02	2.365E-02	2.408E-02	2.451E-02	2.492E-02	2.528E-02	2.557E-02	2.574E-02	2.518E-01

## THERMONUCLEAR SOURCE

4 PI 4\*\*2 FLUENCE AT 300.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.9894	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9440	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2610	ANGLE 9 MU=0.0950
8.00E-00---1.00E-01	2.645E-05	2.672E-05	2.774E-05	2.952E-05	3.182E-05	3.466E-05	3.835E-05	4.346E-05	5.079E-05
6.50E-00---8.00E-01	8.515E-05	8.647E-05	9.132E-05	9.927E-05	1.084E-04	1.183E-04	1.303E-04	1.471E-04	1.743E-04
5.00E-00---6.50E-01	5.594E-04	5.664E-04	5.903E-04	6.319E-04	6.821E-04	7.401E-04	8.126E-04	9.128E-04	1.057E-03
4.00E-00---5.00E-01	1.880E-04	1.955E-04	2.217E-04	2.606E-04	2.968E-04	3.247E-04	3.504E-04	3.886E-04	4.547E-04
3.00E-00---4.00E-01	2.547E-04	2.623E-04	3.063E-04	3.655E-04	4.044E-04	4.400E-04	4.807E-04	5.244E-04	6.133E-04
2.50E-00---3.00E-01	3.037E-04	3.065E-04	3.263E-04	3.655E-04	4.044E-04	4.400E-04	4.807E-04	5.244E-04	6.133E-04
2.00E-00---2.50E-01	3.037E-04	3.065E-04	3.263E-04	3.655E-04	4.044E-04	4.400E-04	4.807E-04	5.244E-04	6.133E-04
1.66E-00---2.00E-01	3.782E-04	3.778E-04	3.777E-04	3.824E-04	3.992E-04	4.351E-04	4.947E-04	5.603E-04	6.212E-04
1.33E-00---1.66E-01	5.257E-04	5.205E-04	5.048E-04	4.911E-04	5.018E-04	5.501E-04	6.369E-04	7.547E-04	8.547E-04
1.00E-00---1.33E-01	4.085E-04	3.971E-04	3.609E-04	3.220E-04	3.194E-04	3.695E-04	4.639E-04	5.805E-04	7.107E-04
8.00E-01---1.00E-01	3.191E-04	3.162E-04	3.100E-04	3.150E-04	3.493E-04	4.171E-04	5.109E-04	6.267E-04	7.867E-04
6.00E-01---8.00E-01	4.188E-04	4.458E-04	5.423E-04	6.837E-04	8.118E-04	9.091E-04	1.006E-03	1.180E-03	1.533E-03
4.00E-01---6.00E-01	2.386E-03	2.403E-03	2.474E-03	2.602E-03	2.793E-03	3.094E-03	3.582E-03	4.338E-03	5.410E-03
3.00E-01---4.00E-01	3.299E-03	3.318E-03	3.430E-03	3.750E-03	4.393E-03	5.397E-03	6.683E-03	8.384E-03	9.425E-03
2.00E-01---3.00E-01	1.461E-02	1.457E-02	1.489E-02	1.524E-02	1.561E-02	1.595E-02	1.627E-02	1.664E-02	1.718E-02
1.00E-01---2.00E-01	4.016E-02	4.024E-02	4.056E-02	4.113E-02	4.200E-02	4.317E-02	4.470E-02	4.661E-02	4.897E-02
5.00E-02---1.00E-01	1.076E-01	1.077E-01	1.084E-01	1.098E-01	1.117E-01	1.142E-01	1.174E-01	1.212E-01	1.258E-01
2.00E-02---5.00E-02	3.232E-02	3.234E-02	3.244E-02	3.262E-02	3.288E-02	3.323E-02	3.365E-02	3.416E-02	3.474E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2610	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9440	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00---1.00E-01	5.950E-05	7.804E-05	9.693E-05	1.332E-04	1.856E-04	2.888E-04	5.295E-04	1.597E-03	1.428E-03
6.50E-00---8.00E-01	4.139E-04	2.597E-04	3.647E-04	4.647E-04	6.860E-04	1.115E-03	2.245E-03	7.223E-03	5.450E-03
5.00E-00---6.50E-01	1.240E-03	1.575E-03	1.941E-03	2.570E-03	3.462E-03	5.069E-03	8.420E-03	2.166E-02	2.549E-02
4.00E-00---5.00E-01	5.401E-04	7.219E-04	8.918E-04	1.220E-03	1.717E-03	2.766E-03	5.207E-03	1.455E-02	1.526E-02
3.00E-00---4.00E-01	6.721E-04	8.659E-04	1.072E-03	1.436E-03	1.977E-03	3.037E-03	5.257E-03	1.217E-02	1.418E-02
2.50E-00---3.00E-01	8.108E-04	9.803E-04	1.318E-03	1.774E-03	2.681E-03	4.439E-03	8.699E-03	2.442E-02	2.650E-02
2.00E-00---2.50E-01	7.327E-04	9.650E-04	1.231E-03	1.753E-03	2.586E-03	4.281E-03	7.851E-03	1.863E-02	1.670E-02
1.66E-00---2.00E-01	8.705E-04	1.054E-03	1.446E-03	2.033E-03	3.152E-03	5.155E-03	9.358E-03	2.212E-02	2.186E-02
1.33E-00---1.66E-01	1.122E-03	1.359E-03	1.895E-03	2.701E-03	4.183E-03	6.690E-03	1.170E-02	2.651E-02	2.793E-02
1.00E-00---1.33E-01	8.537E-04	1.221E-03	1.736E-03	2.744E-03	4.222E-03	6.523E-03	1.014E-02	1.809E-02	2.410E-02
8.00E-01---1.00E-01	1.049E-03	1.543E-03	2.537E-03	3.553E-03	5.169E-03	7.193E-03	9.651E-03	1.298E-02	2.641E-02
6.00E-01---8.00E-01	2.073E-03	3.147E-03	4.281E-03	5.924E-03	7.697E-03	1.066E-02	1.338E-02	2.106E-02	4.350E-02
4.00E-01---6.00E-01	6.765E-03	8.398E-03	1.011E-02	1.200E-02	1.408E-02	1.673E-02	2.042E-02	2.605E-02	9.642E-02
3.00E-01---4.00E-01	1.061E-02	1.176E-02	1.297E-02	1.454E-02	1.654E-02	1.906E-02	2.200E-02	2.547E-02	1.311E-01
2.00E-01---3.00E-01	1.797E-02	1.919E-02	2.070E-02	2.267E-02	2.501E-02	2.787E-02	3.131E-02	3.556E-02	2.426E-01
1.00E-01---2.00E-01	5.180E-02	5.515E-02	5.902E-02	6.341E-02	6.824E-02	7.344E-02	7.840E-02	8.272E-02	6.654E-01
5.00E-02---1.00E-01	1.310E-01	1.369E-01	1.433E-01	1.502E-01	1.570E-01	1.646E-01	1.692E-01	1.730E-01	1.656E-00
2.00E-02---5.00E-02	3.539E-02	3.609E-02	3.681E-02	3.754E-02	3.823E-02	3.884E-02	3.931E-02	3.959E-02	4.442E-01

## THERMONUCLEAR SOURCE

4 PI R\*\*2 FLUENCE AT 400.0 METERS

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.000C	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2810	MU=-0.1950
8.00E 00---1.00E 01	1.992E-05	2.019E-05	2.115E-05	2.280E-05	2.488E-05	2.722E-05	3.021E-05	3.447E-05	4.066E-05
6.50E 00---8.00E 00	8.076E-05	6.214E-05	6.712E-05	7.485E-05	8.289E-05	9.063E-05	9.945E-05	1.125E-04	1.333E-04
5.00E 00---6.50E 00	4.333E-04	4.463E-04	4.656E-04	5.065E-04	5.523E-04	6.013E-04	6.609E-04	7.466E-04	8.774E-04
4.00E 00---5.00E 00	1.247E-04	1.233E-04	1.637E-04	2.064E-04	2.418E-04	2.634E-04	2.790E-04	3.068E-04	3.652E-04
3.00E 00---4.00E 00	1.847E-04	1.935E-04	2.246E-04	2.786E-04	3.053E-04	3.313E-04	3.548E-04	3.947E-04	4.695E-04
2.50E 00---3.00E 00	2.065E-04	2.142E-04	2.411E-04	2.798E-04	3.140E-04	3.405E-04	3.687E-04	4.169E-04	5.020E-04
2.00E 00---2.50E 00	2.389E-04	2.432E-04	2.888E-04	3.062E-04	3.062E-04	3.319E-04	3.674E-04	4.245E-04	5.139E-04
1.66E 00---2.00E 00	3.070E-04	3.047E-04	2.991E-04	3.018E-04	3.018E-04	3.322E-04	3.874E-04	4.662E-04	5.679E-04
1.33E 00---1.66E 00	4.352E-04	4.267E-04	3.997E-04	3.710E-04	4.149E-04	4.593E-04	5.053E-04	5.645E-04	6.196E-04
1.00E 00---1.33E 00	3.504E-04	3.366E-04	2.936E-04	2.42E-04	2.381E-04	2.903E-04	3.869E-04	4.998E-04	6.196E-04
8.00E-01---1.00E 00	2.528E-04	2.511E-04	2.490E-04	2.600E-04	2.885E-04	3.657E-04	4.539E-04	5.645E-04	7.027E-04
6.00E-01---8.00E-01	2.736E-04	3.039E-04	4.109E-04	5.612E-04	6.853E-04	7.666E-04	8.473E-04	1.027E-03	1.426E-03
4.00E-01---6.00E-01	2.238E-03	2.254E-03	2.320E-03	2.445E-03	2.644E-03	2.979E-03	3.540E-03	4.415E-03	5.643E-03
3.00E-01---4.00E-01	3.124E-03	3.151E-03	3.303E-03	3.710E-03	4.485E-03	5.655E-03	7.108E-03	8.636E-03	1.004E-02
2.00E-01---3.00E-01	1.546E-02	1.552E-02	1.574E-02	1.608E-02	1.641E-02	1.670E-02	1.695E-02	1.728E-02	1.731E-02
1.00E-01---2.00E-01	4.339E-02	4.348E-02	4.384E-02	4.453E-02	4.553E-02	4.689E-02	4.865E-02	5.085E-02	5.355E-02
5.00E-02---1.00E-01	1.231E-01	1.233E-01	1.241E-01	1.257E-01	1.281E-01	1.312E-01	1.351E-01	1.399E-01	1.456E-01
2.00E-02---5.00E-02	3.759E-02	3.762E-02	3.773E-02	3.796E-02	3.828E-02	3.870E-02	3.923E-02	3.985E-02	4.057E-02

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
6.50E 00---8.00E 00	5.050E-05	6.443E-05	8.601E-05	1.200E-04	1.784E-04	2.882E-04	5.457E-04	1.665E-03	1.538E-03
5.00E 00---6.50E 00	1.654E-04	2.137E-04	2.850E-04	4.013E-04	6.094E-04	1.039E-03	2.156E-03	7.271E-03	4.929E-03
4.00E 00---5.00E 00	1.074E-03	1.553E-03	1.767E-03	2.397E-03	3.436E-03	5.265E-03	9.035E-03	2.226E-02	2.429E-02
3.00E 00---4.00E 00	4.648E-04	6.026E-04	7.976E-04	1.095E-03	1.642E-03	2.759E-03	5.376E-03	1.491E-02	1.243E-02
2.50E 00---3.00E 00	5.896E-04	7.551E-04	9.895E-04	1.351E-03	1.998E-03	3.232E-03	5.782E-03	1.307E-02	1.410E-02
2.00E 00---2.50E 00	6.318E-04	8.215E-04	1.093E-03	1.555E-03	2.423E-03	4.205E-03	8.346E-03	2.307E-02	1.626E-02
1.66E 00---2.00E 00	6.458E-04	8.267E-04	1.116E-03	1.609E-03	2.537E-03	4.325E-03	8.036E-03	1.847E-02	1.763E-02
1.33E 00---1.66E 00	7.014E-04	9.105E-04	1.262E-03	1.965E-03	3.665E-03	5.176E-03	9.317E-03	2.091E-02	2.023E-02
1.00E 00---1.33E 00	8.992E-04	1.175E-03	1.666E-03	2.599E-03	4.078E-03	6.649E-03	1.137E-02	2.410E-02	2.556E-02
8.00E-01---1.00E 00	7.945E-04	1.120E-03	1.755E-03	2.864E-03	4.557E-03	6.976E-03	1.056E-02	1.753E-02	2.416E-02
6.00E-01---8.00E-01	1.042E-03	1.612E-03	2.565E-03	3.945E-03	5.795E-03	7.974E-03	1.048E-02	1.363E-02	2.815E-02
4.00E-01---6.00E-01	2.151E-03	3.204E-03	4.611E-03	6.262E-03	8.156E-03	1.033E-02	1.316E-02	1.866E-02	4.350E-02
3.00E-01---4.00E-01	7.182E-03	8.919E-03	1.075E-02	1.263E-02	1.470E-02	1.724E-02	2.068E-02	2.553E-02	9.952E-02
2.00E-01---3.00E-01	1.124E-02	1.233E-02	1.355E-02	1.515E-02	1.724E-02	1.975E-02	2.249E-02	2.534E-02	1.369E-01
1.00E-01---2.00E-01	1.867E-02	1.990E-02	2.153E-02	2.353E-02	2.589E-02	2.861E-02	3.169E-02	3.501E-02	2.518E-01
5.00E-02---1.00E-01	5.679E-02	6.060E-02	6.499E-02	6.991E-02	7.524E-02	8.073E-02	8.593E-02	9.004E-02	7.328E-01
2.00E-02---5.00E-02	1.521E-01	1.595E-01	1.675E-01	1.760E-01	1.845E-01	1.925E-01	1.993E-01	2.037E-01	1.926E 00
	4.137E-02	4.223E-02	4.312E-02	4.402E-02	4.485E-02	4.559E-02	4.615E-02	4.649E-02	5.152E-01

## THERMONUCLEAR SOURCE

4 PI R\*2 FLUENCE AT 500.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E-00---1.00E-01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4380	MU=-0.2610	MU=-0.0950
1.373E-05	1.373E-05	1.399E-05	1.491E-05	1.639E-05	1.802E-05	1.973E-05	2.184E-05	2.496E-05	2.969E-05
6.50E-00---8.00E-00	3.047E-05	3.110E-05	3.356E-05	3.730E-05	4.111E-05	4.473E-05	4.891E-05	5.325E-05	5.759E-05
5.00E-00---6.50E-00	3.047E-05	3.110E-05	3.356E-05	3.730E-05	4.111E-05	4.473E-05	4.891E-05	5.325E-05	5.759E-05
4.00E-00---5.00E-00	6.865E-05	7.815E-05	1.103E-04	1.535E-04	1.856E-04	2.198E-04	2.630E-04	3.155E-04	3.764E-04
3.00E-00---4.00E-00	1.163E-04	1.256E-04	1.575E-04	2.013E-04	2.348E-04	2.523E-04	2.639E-04	2.909E-04	3.524E-04
2.50E-00---3.00E-00	1.347E-04	1.423E-04	1.685E-04	2.045E-04	2.328E-04	2.501E-04	2.667E-04	3.013E-04	3.657E-04
2.00E-00---2.50E-00	1.785E-04	1.819E-04	1.942E-04	2.120E-04	2.294E-04	2.481E-04	2.756E-04	3.266E-04	3.969E-04
1.66E-00---2.00E-00	2.418E-04	2.378E-04	2.250E-04	2.112E-04	2.126E-04	2.373E-04	2.866E-04	3.545E-04	4.364E-04
1.33E-00---1.66E-00	3.497E-04	3.388E-04	3.031E-04	2.628E-04	2.546E-04	2.535E-04	3.718E-04	4.672E-04	5.667E-04
1.00E-00---1.33E-00	2.871E-04	2.722E-04	2.238E-04	1.711E-04	1.627E-04	2.124E-04	3.024E-04	3.998E-04	4.966E-04
8.00E-01---1.00E-01	1.802E-04	1.799E-04	1.825E-04	1.985E-04	2.366E-04	2.947E-04	3.659E-04	4.575E-04	5.614E-04
6.00E-01---8.00E-01	1.455E-04	1.771E-04	2.869E-04	4.345E-04	5.443E-04	6.023E-04	6.589E-04	8.467E-04	1.237E-03
4.00E-01---6.00E-01	1.932E-03	1.945E-03	1.998E-03	2.103E-03	2.288E-03	2.620E-03	3.195E-03	4.095E-03	5.344E-03
3.00E-01---4.00E-01	2.694E-03	2.727E-03	2.901E-03	3.346E-03	4.168E-03	5.378E-03	6.839E-03	8.326E-03	9.631E-03
2.00E-01---3.00E-01	1.484E-02	1.489E-02	1.509E-02	1.538E-02	1.564E-02	1.583E-02	1.600E-02	1.624E-02	1.669E-02
1.00E-01---2.00E-01	4.179E-02	4.187E-02	4.224E-02	4.293E-02	4.394E-02	4.530E-02	4.705E-02	4.924E-02	5.192E-02
5.00E-02---1.00E-01	1.231E-01	1.233E-01	1.242E-01	1.259E-01	1.283E-01	1.316E-01	1.357E-01	1.407E-01	1.467E-01
2.00E-02---5.00E-02	3.797E-02	3.800E-02	3.813E-02	3.836E-02	3.869E-02	3.913E-02	3.968E-02	4.033E-02	4.108E-02
ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E-00---1.00E-01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	1.161E-03
6.50E-00---8.00E-00	3.752E-05	4.913E-05	6.724E-05	9.736E-05	1.528E-04	2.626E-04	5.225E-04	1.630E-03	4.163E-03
5.00E-00---6.50E-00	1.209E-04	1.593E-04	2.175E-04	3.147E-04	4.995E-04	8.981E-04	1.955E-03	6.868E-03	2.107E-02
4.00E-00---5.00E-00	8.160E-04	1.053E-03	1.407E-03	1.980E-03	2.986E-03	4.881E-03	8.835E-03	2.193E-02	1.084E-02
3.00E-00---4.00E-00	3.531E-04	4.730E-04	6.354E-04	8.969E-04	1.415E-03	2.541E-03	5.184E-03	1.435E-02	1.084E-02
2.50E-00---3.00E-00	4.556E-04	6.001E-04	8.021E-04	1.136E-03	1.782E-03	3.094E-03	5.807E-03	1.303E-02	1.255E-02
2.00E-00---2.50E-00	4.784E-04	6.316E-04	8.600E-04	1.264E-03	2.075E-03	3.778E-03	7.638E-03	2.063E-02	1.549E-02
1.66E-00---2.00E-00	5.043E-04	6.603E-04	9.138E-04	1.383E-03	2.299E-03	4.088E-03	7.654E-03	1.714E-02	1.559E-02
1.33E-00---1.66E-00	5.428E-04	7.143E-04	1.038E-03	1.600E-03	2.811E-03	4.879E-03	8.753E-03	1.865E-02	1.773E-02
1.00E-00---1.33E-00	6.938E-04	9.256E-04	1.393E-03	2.287E-03	3.764E-03	6.213E-03	1.044E-02	2.072E-02	2.219E-02
8.00E-01---1.00E-01	6.460E-04	9.704E-04	1.530E-03	2.771E-03	4.484E-03	6.840E-03	1.009E-02	1.576E-02	2.239E-02
6.00E-01---8.00E-01	9.310E-04	1.535E-03	2.535E-03	3.979E-03	5.814E-03	7.911E-03	1.018E-02	1.281E-02	2.708E-02
4.00E-01---6.00E-01	1.984E-03	3.089E-03	4.926E-03	6.103E-03	7.847E-03	9.742E-03	1.200E-02	1.576E-02	4.028E-02
3.00E-01---4.00E-01	6.876E-03	8.558E-03	1.026E-02	1.196E-02	1.378E-02	1.599E-02	1.891E-02	2.273E-02	9.286E-02
2.00E-01---3.00E-01	1.069E-02	1.163E-02	1.272E-02	1.419E-02	1.612E-02	1.837E-02	2.088E-02	2.280E-02	1.287E-01
1.00E-01---2.00E-01	1.747E-02	1.863E-02	2.015E-02	2.198E-02	2.409E-02	2.646E-02	2.900E-02	3.144E-02	2.359E-01
5.00E-02---1.00E-01	5.513E-02	5.889E-02	6.320E-02	6.798E-02	7.310E-02	7.827E-02	8.300E-02	8.651E-02	7.104E-01
2.00E-02---5.00E-02	1.535E-01	1.612E-01	1.696E-01	1.784E-01	1.873E-01	1.955E-01	2.024E-01	2.068E-01	1.943E-00
	4.191E-02	4.280E-02	4.373E-02	4.464E-02	4.551E-02	4.625E-02	4.683E-02	4.716E-02	5.258E-01

4 PI R\*2 FLUENCE AT 600.0 METERS

THERMONUCLEAR SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=1.0000	ANGLE 2 MU=C.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=C.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=C.2816	ANGLE 9 MU=C.0950
8.00E 00---1.00E 01	9.601E-06	9.235E-06	1.008E-05	1.138E-05	1.263E-05	1.380E-05	1.516E-05	1.727E-05	2.085E-05
6.50E 00---8.00E 00	2.434E-05	2.562E-05	3.013E-05	3.650E-05	4.186E-05	4.397E-05	4.840E-05	5.397E-05	6.532E-05
5.00E 00---6.50E 00	2.024E-04	2.088E-04	2.315E-04	2.648E-04	2.953E-04	3.199E-04	3.461E-04	3.842E-04	4.659E-04
4.00E 00---5.00E 00	2.750E-05	3.757E-05	6.970E-05	1.108E-04	1.394E-04	1.481E-04	1.445E-04	1.506E-04	1.866E-04
3.00E 00---4.00E 00	6.377E-05	7.316E-05	1.000E-04	1.467E-04	1.754E-04	1.851E-04	1.875E-04	2.028E-04	2.509E-04
2.50E 00---3.00E 00	8.192E-05	8.908E-05	1.136E-04	1.459E-04	1.685E-04	1.783E-04	1.858E-04	2.092E-04	2.626E-04
2.00E 00---2.50E 00	1.300E-04	1.325E-04	1.636E-04	1.536E-04	1.651E-04	1.780E-04	1.989E-04	2.361E-04	2.946E-04
1.66E 00---2.00E 00	1.865E-04	1.837E-04	1.633E-04	1.464E-04	1.421E-04	1.623E-04	2.057E-04	2.624E-04	3.239E-04
1.33E 00---1.66E 00	2.786E-04	2.662E-04	2.250E-04	1.778E-04	1.644E-04	1.989E-04	2.698E-04	3.493E-04	4.206E-04
1.00E 00---1.33E 00	2.308E-04	2.157E-04	1.655E-04	1.131E-04	1.036E-04	1.493E-04	2.290E-04	3.074E-04	3.779E-04
8.00E-01---1.00E 01	1.182E-04	1.193E-04	1.261E-04	1.458E-04	1.812E-04	2.274E-04	2.788E-04	3.474E-04	4.845E-04
6.00E-01---8.00E-01	4.971E-05	8.262E-05	1.891E-04	3.263E-04	4.201E-04	4.554E-04	4.863E-04	6.342E-04	1.031E-03
4.00E-01---6.00E-01	1.597E-03	1.606E-03	1.643E-03	1.725E-03	1.883E-03	2.191E-03	2.739E-03	3.600E-03	4.780E-03
3.00E-01---4.00E-01	2.207E-03	2.241E-03	2.419E-03	2.864E-03	3.667E-03	4.826E-03	6.195E-03	7.544E-03	8.675E-03
2.00E-01---3.00E-01	1.342E-02	1.346E-02	1.385E-02	1.385E-02	1.403E-02	1.414E-02	1.421E-02	1.436E-02	1.472E-02
1.00E-01---2.00E-01	3.754E-02	3.762E-02	3.796E-02	3.860E-02	3.952E-02	4.078E-02	4.238E-02	4.438E-02	4.682E-02
5.00E-02---1.00E-01	1.134E-01	1.136E-01	1.145E-01	1.161E-01	1.184E-01	1.215E-01	1.253E-01	1.301E-01	1.357E-01
2.00E-02---5.00E-02	3.523E-02	3.523E-02	3.535E-02	3.550E-02	3.588E-02	3.629E-02	3.681E-02	3.742E-02	3.812E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=C.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=C.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00---1.00E 01	2.659E-05	3.343E-05	4.946E-05	7.398E-05	1.217E-04	2.238E-04	4.747E-04	1.531E-03	9.863E-04
6.50E 00---8.00E 00	8.464E-05	1.137E-04	1.576E-04	2.332E-04	3.861E-04	7.374E-04	1.700E-03	2.058E-03	3.395E-03
5.00E 00---6.50E 00	5.891E-04	7.724E-04	1.049E-03	1.514E-03	2.393E-03	4.181E-03	8.087E-03	1.736E-02	1.736E-02
4.00E 00---5.00E 00	2.571E-04	3.540E-04	4.794E-04	6.871E-04	1.141E-03	2.208E-03	4.765E-03	1.326E-02	9.104E-03
3.00E 00---4.00E 00	3.356E-04	4.511E-04	6.092E-04	8.852E-04	1.473E-03	2.755E-03	5.473E-03	1.234E-02	1.663E-02
2.50E 00---3.00E 00	3.486E-04	4.675E-04	6.458E-04	9.824E-04	1.706E-03	3.276E-03	6.781E-03	1.784E-02	1.275E-02
2.00E 00---2.50E 00	3.777E-04	4.996E-04	7.101E-04	1.129E-03	1.985E-03	3.683E-03	7.039E-03	1.524E-02	1.325E-02
1.66E 00---2.00E 00	3.998E-04	5.329E-04	8.136E-04	1.387E-03	2.470E-03	4.404E-03	7.891E-03	1.605E-02	1.506E-02
1.33E 00---1.66E 00	5.086E-04	6.959E-04	1.117E-03	1.937E-03	3.538E-03	5.571E-03	9.215E-03	1.723E-02	1.864E-02
1.00E 00---1.33E 00	4.985E-04	7.968E-04	1.433E-03	2.537E-03	4.165E-03	6.317E-03	9.214E-03	1.349E-02	1.975E-02
8.00E-01---1.00E 01	7.868E-04	1.376E-03	2.350E-03	3.734E-03	5.441E-03	7.312E-03	9.214E-03	1.125E-02	2.446E-02
6.00E-01---8.00E-01	1.760E-03	2.822E-03	4.140E-03	5.594E-03	7.109E-03	8.666E-03	1.039E-02	1.290E-02	3.552E-02
4.00E-01---6.00E-01	6.199E-03	7.712E-03	9.189E-03	1.060E-02	1.209E-02	1.389E-02	1.624E-02	1.912E-02	8.155E-02
3.00E-01---4.00E-01	9.542E-03	1.029E-02	1.118E-02	1.244E-02	1.411E-02	1.604E-02	1.783E-02	1.933E-02	1.137E-01
2.00E-01---3.00E-01	1.538E-02	1.638E-02	1.769E-02	1.926E-02	2.102E-02	2.296E-02	2.495E-02	2.672E-02	2.678E-01
1.00E-01---2.00E-01	4.973E-02	5.313E-02	5.700E-02	6.127E-02	6.579E-02	7.038E-02	7.428E-02	7.710E-02	6.394E-01
5.00E-02---1.00E-01	1.421E-01	1.494E-01	1.573E-01	1.655E-01	1.738E-01	1.814E-01	1.877E-01	1.917E-01	1.756E 00
2.00E-02---5.00E-02	3.869E-02	3.973E-02	4.059E-02	4.145E-02	4.225E-02	4.294E-02	4.346E-02	4.377E-02	4.879E-01

4 PI  $\pi^+\pi^-$  FLUENCE AT 900.0 METERS  
THERMONUCLEAR SOURCE  
(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=0.9894	MU=0.9894	MU=0.9446	MU=0.8650	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2616	MU=0.1950
6.50E 00---8.00E 00	2.025E-06	2.198E-06	2.798E-06	3.604E-06	4.200E-06	4.481E-06	4.645E-06	5.128E-06	6.366E-06
5.00E 00---6.50E 00	4.002E-06	4.002E-06	7.270E-06	1.142E-05	1.417E-05	1.472E-05	1.401E-05	1.451E-05	1.649E-05
3.50E 00---5.00E 00	4.723E-05	5.194E-05	6.823E-05	8.966E-05	1.044E-04	1.095E-04	1.109E-04	1.206E-04	1.494E-04
2.00E 00---3.50E 00	-1.312E-05	-1.312E-05	8.942E-06	4.397E-05	5.959E-05	5.507E-05	4.087E-05	3.537E-05	5.301E-05
1.50E 00---2.00E 00	8.227E-06	7.490E-06	2.352E-05	5.541E-05	7.289E-05	6.750E-05	5.773E-05	5.505E-05	7.918E-05
1.00E 00---1.50E 00	7.479E-06	4.849E-05	3.000E-05	5.030E-05	6.086E-05	5.929E-05	5.401E-05	5.722E-05	8.445E-05
5.00E 00---1.00E 00	9.204E-05	8.586E-05	5.014E-05	5.187E-05	5.327E-05	5.677E-05	6.611E-05	8.373E-05	1.083E-04
4.00E 00---5.00E 00	1.412E-04	1.292E-04	8.777E-05	4.077E-05	2.708E-05	5.306E-05	1.024E-04	1.066E-04	1.207E-04
3.00E 00---4.00E 00	1.151E-04	1.032E-04	5.779E-05	1.957E-05	2.104E-05	4.693E-05	9.331E-05	1.271E-04	1.394E-04
2.00E 00---3.00E 00	1.515E-05	1.854E-05	3.142E-05	5.317E-05	7.701E-05	9.454E-05	1.032E-04	1.213E-04	1.575E-04
1.00E 00---2.00E 00	-6.621E-05	-3.916E-05	3.332E-05	1.384E-04	1.812E-04	1.746E-04	1.623E-04	2.464E-04	5.342E-04
5.00E 00---1.00E 00	8.046E-04	8.046E-04	8.111E-04	8.361E-04	9.195E-04	1.118E-03	1.495E-03	2.086E-03	2.870E-03
4.00E 00---5.00E 00	1.057E-03	1.084E-03	1.222E-03	1.551E-03	2.123E-03	2.916E-03	3.801E-03	4.665E-03	5.192E-03
3.00E 00---4.00E 00	8.182E-03	8.204E-03	6.278E-03	8.360E-03	8.384E-03	8.336E-03	8.254E-03	8.226E-03	8.346E-03
2.00E 00---3.00E 00	2.195E-02	2.200E-02	2.221E-02	2.260E-02	2.316E-02	2.390E-02	2.485E-02	2.602E-02	2.743E-02
1.00E 00---2.00E 00	6.876E-02	6.876E-02	6.928E-02	7.026E-02	7.168E-02	7.358E-02	7.596E-02	7.966E-02	8.226E-02
5.00E 00---1.00E 00	2.140E-02	2.142E-02	2.149E-02	2.162E-02	2.181E-02	2.205E-02	2.237E-02	2.274E-02	2.310E-02
4.00E 00---5.00E 00									

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU=0.9500	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	
6.50E 00---8.00E 00	8.602E-06	1.197E-05	1.713E-05	2.676E-05	4.934E-05	1.100E-04	2.916E-04	1.095E-03	5.021E-04
5.00E 00---6.50E 00	2.654E-05	3.785E-05	5.295E-05	7.977E-05	1.468E-04	3.398E-04	9.588E-04	4.069E-03	1.683E-03
4.00E 00---5.00E 00	2.011E-04	2.741E-04	3.757E-04	5.552E-04	9.684E-04	2.033E-03	4.877E-03	1.420E-02	8.468E-03
3.00E 00---4.00E 00	1.243E-04	1.737E-04	1.789E-04	2.482E-04	4.785E-04	1.185E-03	3.084E-03	8.999E-03	4.791E-03
2.00E 00---3.00E 00	1.237E-04	1.692E-04	2.342E-04	3.364E-04	6.566E-04	1.557E-03	3.657E-03	8.522E-03	5.646E-03
1.00E 00---2.00E 00	1.379E-04	1.812E-04	2.777E-04	3.931E-04	8.254E-04	1.871E-03	4.188E-03	1.034E-02	6.502E-03
5.00E 00---1.00E 00	1.666E-04	2.466E-04	3.357E-04	5.226E-04	1.092E-03	2.270E-03	4.533E-03	9.228E-03	7.167E-03
4.00E 00---5.00E 00	1.646E-04	2.466E-04	5.122E-04	7.122E-04	1.456E-03	2.759E-03	4.925E-03	8.992E-03	6.110E-03
3.00E 00---4.00E 00	1.865E-04	3.812E-04	8.382E-04	1.630E-03	2.732E-03	4.035E-03	5.448E-03	8.846E-03	9.924E-03
2.00E 00---3.00E 00	4.092E-04	8.591E-04	1.535E-03	2.472E-03	3.536E-03	4.560E-03	5.410E-03	6.099E-03	1.474E-02
1.00E 00---1.00E 00	1.066E-03	1.810E-03	2.664E-03	3.513E-03	4.285E-03	4.978E-03	5.645E-03	6.361E-03	2.059E-02
5.00E 00---1.00E 00	3.759E-03	4.630E-03	5.365E-03	6.023E-03	6.651E-03	7.448E-03	8.502E-03	9.830E-03	4.593E-02
4.00E 00---5.00E 00	5.556E-03	5.835E-03	6.879E-03	8.879E-03	7.531E-03	8.668E-03	9.396E-03	9.822E-03	6.450E-02
3.00E 00---4.00E 00	8.667E-03	9.187E-03	1.063E-02	1.063E-02	1.146E-02	1.233E-02	1.317E-02	1.383E-02	1.174E-01
2.00E 00---3.00E 00	2.909E-02	3.101E-02	3.547E-02	3.547E-02	3.786E-02	4.015E-02	4.209E-02	4.336E-02	3.718E-01
1.00E 00---2.00E 00	8.616E-02	9.051E-02	9.520E-02	1.001E-01	1.048E-01	1.092E-01	1.127E-01	1.148E-01	1.088E 00
5.00E 00---1.00E 00	2.362E-02	2.412E-02	2.463E-02	2.512E-02	2.559E-02	2.598E-02	2.628E-02	2.645E-02	2.962E-01



## THERMONUCLEAR SOURCE

4 PI R\*2 FLUENCE AT 1200.0 METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2810	ANGLE 9 MU=0.0950
8.00E 00--1.00E 01	1.611E-07	2.861E-07	6.687E-07	1.152E-06	1.460E-06	1.464E-06	1.314E-06	1.340E-06	1.792E-06
6.50E 00--8.00E 00	-1.515E-06	-7.611E-07	1.662E-06	3.876E-06	5.099E-06	4.720E-06	3.514E-06	3.029E-06	4.584E-06
5.00E 00--6.50E 00	4.484E-06	7.622E-06	1.766E-05	3.002E-05	3.721E-05	3.673E-05	3.242E-05	3.279E-05	4.419E-05
4.00E 00--5.00E 00	-2.428E-05	-1.827E-05	2.835E-07	1.375E-05	2.720E-05	2.105E-05	4.516E-06	4.359E-06	1.283E-05
3.00E 00--4.00E 00	-1.825E-05	-1.249E-05	1.966E-06	2.282E-05	2.910E-05	2.392E-05	1.032E-05	1.205E-05	2.335E-05
2.50E 00--3.00E 00	-7.177E-06	-3.571E-06	5.465E-06	1.817E-05	2.184E-05	1.817E-05	1.244E-05	1.367E-05	2.580E-05
2.00E 00--2.50E 00	1.839E-05	1.818E-05	1.727E-05	1.578E-05	1.439E-05	1.529E-05	2.010E-05	2.865E-05	3.804E-05
1.64E 00--2.00E 00	4.661E-05	4.192E-05	2.394E-05	5.378E-05	9.371E-07	8.563E-06	2.605E-05	4.147E-05	4.358E-05
1.33E 00--1.64E 00	7.226E-05	6.365E-05	3.000E-05	2.539E-06	-3.500E-06	1.052E-05	3.948E-05	5.826E-05	5.257E-05
1.00E 00--1.33E 00	5.615E-05	4.867E-05	1.992E-05	-1.322E-06	-1.718E-06	1.348E-05	3.939E-05	4.935E-05	4.577E-05
8.00E 01--1.00E 00	-1.139E-05	-7.998E-06	2.715E-06	2.009E-05	3.259E-05	3.789E-05	3.282E-05	3.227E-05	7.158E-05
6.00E 01--8.00E 01	-6.547E-05	-4.685E-05	5.449E-07	5.622E-05	7.512E-05	6.504E-05	4.174E-05	9.473E-05	2.563E-04
3.00E 01--6.00E 01	3.842E-04	3.819E-04	3.760E-04	3.780E-04	4.185E-04	5.299E-04	7.479E-04	1.086E-03	1.520E-03
3.00E 01--4.00E 01	4.710E-04	4.879E-04	5.725E-04	7.689E-04	1.102E-03	1.550E-03	2.030E-03	2.437E-03	2.655E-03
2.00E 01--3.00E 01	4.345E-03	4.354E-03	4.381E-03	4.400E-03	4.374E-03	4.301E-03	4.206E-03	4.143E-03	4.167E-03
1.00E 01--2.00E 01	1.111E-02	1.114E-02	1.124E-02	1.144E-02	1.173E-02	1.210E-02	1.257E-02	1.315E-02	1.383E-02
5.00E 02--1.00E 01	3.495E-02	3.502E-02	3.528E-02	3.577E-02	3.648E-02	3.743E-02	3.861E-02	4.004E-02	4.171E-02
2.00E 02--5.00E 02	1.086E-02	1.087E-02	1.090E-02	1.097E-02	1.106E-02	1.119E-02	1.134E-02	1.152E-02	1.172E-02

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E 00--1.00E 01	2.719E-06	3.991E-06	5.638E-06	8.707E-06	1.738E-05	4.630E-05	1.526E-04	6.871E-04	2.488E-04
6.50E 00--8.00E 00	8.240E-06	1.269E-05	1.692E-05	2.389E-05	4.800E-05	1.375E-04	4.780E-04	2.368E-03	7.992E-04
5.00E 00--6.50E 00	6.676E-05	9.504E-05	1.266E-04	1.812E-04	3.379E-04	8.382E-04	2.446E-03	8.347E-03	3.855E-03
4.00E 00--5.00E 00	3.526E-05	5.602E-05	6.272E-05	7.214E-05	1.674E-04	5.561E-04	1.719E-03	5.325E-03	2.357E-03
3.00E 00--4.00E 00	4.678E-05	6.752E-05	7.715E-05	1.075E-04	2.633E-04	7.693E-04	2.606E-03	5.117E-03	2.771E-03
2.50E 00--3.00E 00	4.348E-05	5.786E-05	7.434E-05	1.394E-04	3.673E-04	9.691E-04	2.309E-03	5.454E-03	3.135E-03
2.00E 00--2.50E 00	4.532E-05	5.545E-05	9.376E-05	2.208E-04	5.441E-04	1.230E-03	2.517E-03	4.903E-03	3.552E-03
1.66E 00--2.00E 00	3.649E-05	4.716E-05	1.264E-04	3.435E-04	7.775E-04	1.517E-03	2.672E-03	4.519E-03	4.043E-03
1.33E 00--1.66E 00	3.967E-05	7.247E-05	2.243E-04	5.600E-04	1.109E-03	1.867E-03	2.829E-03	4.147E-03	4.897E-03
1.00E 00--1.33E 00	6.040E-05	1.704E-04	4.460E-04	9.155E-04	1.531E-03	2.185E-03	2.775E-03	3.318E-03	5.936E-03
8.00E 01--1.00E 00	1.984E-04	4.571E-04	8.636E-04	1.383E-03	1.928E-03	2.384E-03	2.675E-03	2.825E-03	7.672E-03
6.00E 01--8.00E 01	5.774E-04	1.012E-03	1.467E-03	1.877E-03	2.202E-03	2.460E-03	2.689E-03	2.962E-03	1.052E-02
4.00E 01--6.00E 01	1.989E-03	2.414E-03	2.741E-03	2.979E-03	3.203E-03	3.517E-03	3.957E-03	4.400E-03	2.288E-02
3.00E 01--4.00E 01	2.816E-03	2.892E-03	3.645E-03	3.343E-03	3.748E-03	4.133E-03	4.360E-03	4.725E-03	3.218E-02
2.00E 01--3.00E 01	4.302E-03	4.537E-03	4.834E-03	5.160E-03	5.500E-03	5.852E-03	6.191E-03	6.442E-03	5.838E-02
1.00E 01--2.00E 01	1.463E-02	1.554E-02	1.654E-02	1.761E-02	1.868E-02	1.969E-02	2.051E-02	2.103E-02	1.860E-01
5.00E 02--1.00E 01	4.361E-02	4.571E-02	4.795E-02	5.025E-02	5.248E-02	5.448E-02	5.605E-02	5.700E-02	5.494E-01
2.00E 02--5.00E 02	1.194E-02	1.218E-02	1.242E-02	1.266E-02	1.288E-02	1.306E-02	1.320E-02	1.328E-02	1.497E-01

## THERMUNUCLEAR SOURCE

## 4 PI R\*2 FLUENCE AT 1500.0 METERS

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=0.0000	ANGLE 2 MU=0.9894	ANGLE 3 MU=0.9446	ANGLE 4 MU=0.8656	ANGLE 5 MU=0.7550	ANGLE 6 MU=0.6179	ANGLE 7 MU=0.4580	ANGLE 8 MU=0.2816	ANGLE 9 MU=0.0950
8.00E-00--1.00E-01	-1.974E-07	-1.141E-07	9.509E-08	4.086E-07	5.314E-07	4.786E-07	5.289E-07	2.617E-07	4.421E-07
6.50E-00--8.00E-01	-1.698E-06	-1.265E-06	3.071E-08	1.217E-06	1.950E-06	1.678E-06	4.467E-07	2.822E-07	1.022E-06
5.00E-00--6.50E-01	-3.850E-06	-1.875E-06	3.262E-06	1.067E-05	1.353E-05	1.209E-05	8.353E-06	7.092E-06	1.194E-05
4.00E-00--5.00E-01	-1.620E-05	-1.282E-05	-2.237E-06	5.624E-06	1.277E-05	6.187E-06	-1.001E-06	-2.531E-06	2.607E-06
3.00E-00--4.00E-01	-1.368E-05	-1.045E-05	-3.454E-07	7.196E-06	1.559E-05	6.938E-06	6.743E-07	5.060E-07	8.366E-06
2.50E-00--3.00E-01	-6.641E-06	-4.721E-06	3.458E-07	6.864E-06	7.878E-06	4.790E-06	1.210E-06	2.603E-06	8.451E-06
2.00E-00--2.50E-01	7.786E-06	7.446E-06	6.153E-06	4.232E-06	2.857E-06	3.246E-06	6.027E-06	1.029E-05	1.362E-05
1.60E-00--2.00E-01	2.396E-05	2.100E-05	9.187E-06	-1.140E-06	-4.313E-06	2.853E-07	1.061E-05	1.786E-05	1.547E-05
1.30E-00--1.60E-01	3.672E-05	3.170E-05	1.220E-05	-4.111E-06	-7.677E-06	6.030E-07	1.712E-05	2.510E-05	1.410E-05
1.00E-00--1.30E-01	2.691E-05	2.277E-05	7.362E-06	-4.262E-06	-4.356E-06	3.946E-06	1.696E-05	1.885E-05	1.115E-05
8.00E-01--1.00E-01	-1.239E-05	-1.009E-05	-1.958E-06	6.529E-06	1.573E-05	1.468E-05	6.652E-06	6.452E-06	2.517E-05
6.00E-01--8.00E-01	-4.245E-05	-3.327E-05	-3.628E-06	2.075E-05	3.711E-05	1.941E-05	7.545E-06	3.328E-05	1.296E-04
4.00E-01--6.00E-01	1.759E-04	1.779E-04	1.717E-04	1.893E-04	1.878E-04	2.463E-04	3.625E-04	5.400E-04	7.615E-04
3.00E-01--4.00E-01	2.069E-04	2.164E-04	2.633E-04	3.697E-04	5.462E-04	7.784E-04	1.019E-03	1.212E-03	1.318E-03
2.00E-01--3.00E-01	2.171E-03	2.175E-03	2.183E-03	2.182E-03	2.155E-03	2.099E-03	2.033E-03	1.985E-03	1.583E-03
1.00E-01--2.00E-01	5.328E-03	5.341E-03	5.394E-03	5.625E-03	5.625E-03	5.803E-03	6.022E-03	6.288E-03	6.022E-03
5.00E-02--1.00E-01	1.672E-02	1.675E-02	1.688E-02	1.711E-02	1.744E-02	1.787E-02	1.842E-02	1.908E-02	1.984E-02
2.00E-02--5.00E-02	5.165E-03	5.169E-03	5.186E-03	5.216E-03	5.260E-03	5.317E-03	5.386E-03	5.468E-03	5.560E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	8.709E-07	1.381E-06	1.843E-06	2.629E-06	5.677E-06	1.842E-05	7.452E-05	4.012E-04	1.224E-04
6.50E-00--8.00E-01	2.800E-06	4.603E-06	5.438E-06	6.238E-06	1.392E-05	5.316E-05	2.264E-04	1.295E-03	3.781E-04
5.00E-00--6.50E-01	2.234E-05	3.349E-05	4.155E-05	5.401E-05	1.087E-04	3.271E-04	1.137E-03	4.489E-03	1.712E-03
4.00E-00--5.00E-01	1.478E-05	2.414E-05	2.127E-05	1.442E-05	5.090E-05	2.503E-04	8.945E-04	2.909E-03	1.132E-03
3.00E-00--4.00E-01	1.891E-05	2.670E-05	2.429E-05	2.808E-05	9.902E-05	3.666E-04	1.077E-03	2.755E-03	1.322E-03
2.50E-00--3.00E-01	1.623E-05	1.952E-05	2.682E-05	4.632E-05	1.616E-04	4.837E-04	1.198E-03	2.725E-03	1.485E-03
2.00E-00--2.50E-01	1.387E-05	1.595E-05	2.872E-05	9.255E-05	2.842E-04	6.293E-04	1.297E-03	2.428E-03	1.701E-03
1.60E-00--2.00E-01	5.087E-06	8.394E-06	4.666E-05	1.652E-04	3.985E-04	7.828E-04	1.349E-03	2.145E-03	1.947E-03
1.30E-00--1.60E-01	1.581E-06	1.875E-05	1.001E-04	2.844E-04	5.755E-04	9.458E-04	1.377E-03	1.863E-03	2.318E-03
1.00E-00--1.30E-01	1.676E-05	7.661E-05	2.288E-04	4.813E-04	7.948E-04	1.095E-03	1.314E-03	1.456E-03	2.900E-03
8.00E-01--1.00E-01	9.547E-05	2.369E-04	4.522E-04	7.146E-04	9.695E-04	1.154E-03	1.237E-03	1.237E-03	3.753E-03
6.00E-01--8.00E-01	3.027E-04	5.258E-04	7.497E-04	9.312E-04	1.056E-03	1.143E-03	1.220E-03	1.291E-03	5.079E-03
4.00E-01--6.00E-01	9.962E-04	1.164E-03	1.317E-03	1.398E-03	1.474E-03	1.597E-03	1.782E-03	1.963E-03	1.088E-02
3.00E-01--4.00E-01	1.350E-03	1.363E-03	1.421E-03	1.555E-03	1.736E-03	1.893E-03	1.971E-03	1.978E-03	1.530E-02
2.00E-01--3.00E-01	2.038E-03	2.139E-03	2.266E-03	2.399E-03	2.534E-03	2.675E-03	2.811E-03	2.912E-03	2.771E-02
1.00E-01--2.00E-01	6.965E-03	7.373E-03	7.818E-03	8.284E-03	8.746E-03	9.100E-03	9.511E-03	9.722E-03	8.819E-02
5.00E-02--1.00E-01	2.070E-02	2.165E-02	2.265E-02	2.366E-02	2.464E-02	2.550E-02	2.617E-02	2.657E-02	2.603E-01
2.00E-02--5.00E-02	5.661E-03	5.768E-03	5.875E-03	5.980E-03	6.075E-03	6.156E-03	6.216E-03	6.251E-03	7.092E-02

4 RI R\*2 FLUENCE AT 180G.C METERS

THERMUNUCLEAR SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=C.9894	ANGLE 2 MU=C.9894	ANGLE 3 MU=C.9446	ANGLE 4 MU=C.8656	ANGLE 5 MU=C.7550	ANGLE 6 MU=C.6179	ANGLE 7 MU=C.4580	ANGLE 8 MU=C.2816	ANGLE 9 MU=C.0950
8.00E-00---1.00E-01	-1.900E-07	-1.429E-07	3.913E-10	1.303E-07	2.127E-07	1.688E-07	3.725E-08	2.918E-08	1.633E-07
6.50E-00---8.00E-00	-1.143E-06	-9.054E-07	1.577E-07	3.341E-07	9.341E-07	4.788E-07	-6.016E-08	-2.079E-07	1.509E-07
5.00E-00---6.50E-00	-3.741E-06	-2.705E-06	1.647E-07	4.871E-06	4.921E-06	4.097E-06	1.144E-06	1.149E-06	3.057E-06
4.00E-00---5.00E-00	-9.197E-06	-7.419E-06	-1.783E-06	2.505E-06	6.086E-06	2.202E-06	-1.829E-06	-2.707E-06	1.379E-06
3.00E-00---4.00E-00	-8.098E-06	-6.405E-06	-1.036E-06	3.005E-06	6.132E-06	2.235E-06	-1.303E-06	-1.495E-06	1.679E-06
2.50E-00---3.00E-00	-4.041E-06	-3.074E-06	-6.437E-08	2.132E-06	3.503E-06	1.025E-06	-5.615E-07	8.068E-08	2.894E-06
2.00E-00---2.50E-00	3.616E-06	3.346E-06	2.341E-06	7.887E-07	7.796E-08	4.190E-07	1.849E-06	4.017E-06	5.595E-06
1.66E-00---2.00E-00	1.224E-05	1.055E-05	3.984E-06	-1.857E-06	-3.621E-06	-3.577E-07	3.792E-06	8.326E-06	4.431E-06
1.33E-00---1.66E-00	1.339E-05	1.565E-05	5.210E-06	-3.646E-06	-5.513E-06	2.926E-07	6.392E-06	1.144E-05	3.019E-06
1.00E-00---1.33E-00	1.271E-05	1.058E-05	2.807E-06	-3.100E-06	-3.044E-06	1.215E-06	7.505E-06	7.160E-06	6.613E-07
8.00E-01---1.00E-00	-8.391E-06	-7.617E-06	2.205E-06	2.709E-06	7.462E-06	5.863E-06	5.015E-07	-8.273E-07	9.303E-06
6.00E-01---8.00E-01	-2.359E-05	-1.883E-05	3.406E-06	9.311E-06	1.670E-05	5.402E-06	-1.130E-08	1.331E-05	6.285E-05
4.00E-01---6.00E-01	8.420E-05	8.286E-05	7.858E-05	7.603E-05	8.469E-05	1.144E-04	1.736E-04	2.625E-04	3.708E-04
3.00E-01---4.00E-01	9.140E-05	9.647E-05	1.211E-04	1.759E-04	2.651E-04	3.802E-04	4.959E-04	5.841E-04	6.270E-04
2.00E-01---3.00E-01	1.053E-03	1.055E-03	1.037E-03	1.052E-03	1.033E-03	9.97E-04	9.607E-04	9.318E-04	9.264E-04
1.00E-01---2.00E-01	2.502E-03	2.508E-03	2.533E-03	2.578E-03	2.641E-03	2.723E-03	2.824E-03	2.945E-03	3.066E-03
5.00E-02---1.00E-01	7.818E-03	7.831E-03	7.888E-03	7.992E-03	8.142E-03	8.341E-03	8.587E-03	8.863E-03	9.224E-03
2.00E-02---5.00E-02	2.402E-03	2.403E-03	2.411E-03	2.425E-03	2.444E-03	2.470E-03	2.501E-03	2.538E-03	2.579E-03

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=C.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=C.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAK FLUX
8.00E-00---1.00E-01	3.086E-07	5.171E-07	6.091E-07	7.003E-07	1.683E-06	7.173E-06	3.533E-05	2.244E-04	6.054E-05
6.50E-00---8.00E-00	1.060E-06	1.873E-06	1.804E-06	1.150E-06	3.272E-06	2.031E-05	1.053E-04	6.831E-04	1.799E-04
5.00E-00---6.50E-00	1.890E-06	1.232E-05	1.340E-05	1.388E-05	3.170E-05	1.252E-04	5.119E-04	2.290E-03	7.572E-04
4.00E-00---5.00E-00	5.695E-06	1.106E-05	6.611E-06	-1.629E-06	1.360E-05	1.116E-04	4.494E-04	1.511E-03	5.368E-04
3.00E-00---4.00E-00	8.143E-06	1.111E-05	6.725E-06	4.093E-06	3.641E-05	1.733E-04	5.424E-04	1.403E-03	6.231E-04
2.50E-00---3.00E-00	6.402E-06	6.583E-06	4.514E-06	1.458E-05	7.199E-05	2.377E-04	6.000E-04	1.316E-03	6.988E-04
2.00E-00---2.50E-00	3.865E-06	2.032E-06	7.847E-06	3.968E-05	1.276E-04	3.130E-04	6.415E-04	1.156E-03	8.288E-04
1.66E-00---2.00E-00	-2.164E-06	-4.671E-07	1.776E-05	7.994E-05	1.997E-04	3.897E-04	6.538E-04	9.870E-04	9.223E-04
1.33E-00---1.66E-00	-3.829E-06	4.255E-06	4.635E-05	1.427E-04	2.891E-04	4.860E-04	6.473E-04	8.218E-04	1.104E-03
1.00E-00---1.33E-00	5.014E-06	3.539E-05	2.275E-04	2.436E-04	3.953E-04	5.264E-04	6.013E-04	6.266E-04	1.381E-03
8.00E-01---1.00E-00	4.622E-05	1.194E-04	2.275E-04	3.537E-04	4.681E-04	5.395E-04	5.541E-04	5.337E-04	1.785E-03
6.00E-01---8.00E-01	1.523E-04	2.630E-04	3.631E-04	4.452E-04	4.911E-04	5.188E-04	5.451E-04	5.722E-04	2.408E-03
4.00E-01---6.00E-01	4.787E-04	5.646E-04	6.172E-04	6.435E-04	6.681E-04	7.179E-04	7.977E-04	8.749E-04	5.083E-03
3.00E-01---4.00E-01	6.327E-04	6.303E-04	6.528E-04	7.131E-04	7.932E-04	8.571E-04	8.802E-04	8.729E-04	7.145E-03
2.00E-01---3.00E-01	9.487E-04	9.924E-04	1.046E-03	1.100E-03	1.154E-03	1.211E-03	1.267E-03	1.309E-03	1.292E-02
1.00E-01---2.00E-01	3.248E-03	3.429E-03	3.624E-03	3.826E-03	4.043E-03	4.202E-03	4.344E-03	4.431E-03	4.101E-02
5.00E-02---1.00E-01	9.608E-03	1.002E-02	1.046E-02	1.090E-02	1.132E-02	1.169E-02	1.197E-02	1.214E-02	1.206E-01
2.00E-02---5.00E-02	2.623E-03	2.670E-03	2.717E-03	2.763E-03	2.804E-03	2.839E-03	2.865E-03	2.880E-03	3.285E-02

## THERMONUCLEAR SOURCE

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E-01	5.386E-11	6.343E-11	7.473E-11	7.844E-11	7.711E-11	7.285E-11	6.032E-11
-9.89401E-01	5.409E-11	6.368E-11	7.501E-11	7.871E-11	7.737E-11	7.309E-11	6.051E-11
-9.44575E-01	5.480E-11	6.452E-11	7.598E-11	7.972E-11	7.836E-11	7.402E-11	6.127E-11
-8.65631E-01	5.591E-11	6.585E-11	7.757E-11	8.138E-11	7.997E-11	7.558E-11	6.261E-11
-7.55044E-01	5.736E-11	6.762E-11	7.977E-11	8.386E-11	8.253E-11	7.803E-11	6.468E-11
-6.17876E-01	5.964E-11	7.034E-11	8.305E-11	8.733E-11	8.598E-11	8.135E-11	6.752E-11
-4.58017E-01	6.282E-11	7.412E-11	8.761E-11	9.228E-11	9.096E-11	8.613E-11	7.159E-11
-2.81605E-01	6.771E-11	7.985E-11	9.439E-11	9.948E-11	9.808E-11	9.290E-11	7.725E-11
-9.50125E-02	7.467E-11	8.786E-11	1.037E-10	1.093E-10	1.077E-10	1.020E-10	8.480E-11
-9.50125E-02	1.060E-10	9.972E-11	1.239E-10	1.263E-10	1.248E-10	1.130E-10	9.483E-11
2.81605E-01	1.024E-10	1.173E-10	1.373E-10	1.362E-10	1.336E-10	1.304E-10	1.073E-10
4.58017E-01	1.140E-10	1.377E-10	1.607E-10	1.648E-10	1.620E-10	1.495E-10	1.243E-10
6.17876E-01	1.391E-10	1.691E-10	1.946E-10	1.937E-10	1.885E-10	1.802E-10	1.479E-10
7.55044E-01	1.973E-10	2.658E-10	3.355E-10	2.495E-10	2.428E-10	2.252E-10	1.847E-10
8.65631E-01	2.857E-10	3.162E-10	3.521E-10	3.439E-10	3.293E-10	3.070E-10	2.471E-10
9.44575E-01	6.451E-10	6.036E-10	5.860E-10	5.734E-10	5.309E-10	4.795E-10	3.735E-10
9.89401E-01	5.824E-09	5.073E-09	3.912E-09	3.054E-09	2.392E-09	1.886E-09	1.181E-09
TOTAL	2.465E-09	2.481E-09	2.490E-09	2.393E-09	2.229E-09	2.025E-09	1.599E-09

## COSINE

	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0	
-1.00000E-01	4.694E-11	3.514E-11	1.290E-11	4.239E-12	1.311E-12	3.904E-13	
-9.89401E-01	4.709E-11	3.524E-11	1.294E-11	4.251E-12	1.315E-12	3.915E-13	
-9.44575E-01	4.768E-11	3.569E-11	1.311E-11	4.306E-12	1.332E-12	3.966E-13	
-8.65631E-01	4.874E-11	3.650E-11	1.341E-11	4.408E-12	1.364E-12	4.062E-13	
-7.55044E-01	5.038E-11	3.774E-11	1.388E-11	4.564E-12	1.412E-12	4.209E-13	
-6.17876E-01	5.265E-11	3.947E-11	1.454E-11	4.786E-12	1.482E-12	4.417E-13	
-4.58017E-01	5.587E-11	4.191E-11	1.546E-11	5.089E-12	1.576E-12	4.698E-13	
-2.81605E-01	6.031E-11	4.525E-11	1.669E-11	5.494E-12	1.701E-12	5.070E-13	
-9.50125E-02	6.619E-11	4.965E-11	1.829E-11	6.018E-12	1.862E-12	5.548E-13	
-9.50125E-02	7.380E-11	5.534E-11	2.035E-11	6.688E-12	2.068E-12	6.157E-13	
2.81605E-01	8.366E-11	6.264E-11	2.300E-11	7.548E-12	2.332E-12	6.940E-13	
4.58017E-01	9.661E-11	7.228E-11	2.647E-11	8.678E-12	2.679E-12	7.970E-13	
6.17876E-01	1.148E-10	8.573E-11	3.128E-11	1.023E-11	3.154E-12	9.372E-13	
7.55044E-01	1.425E-10	1.060E-10	3.834E-11	1.247E-11	3.830E-12	1.135E-12	
8.65631E-01	1.886E-10	1.390E-10	4.937E-11	1.587E-11	4.830E-12	1.422E-12	
9.44575E-01	2.780E-10	2.008E-10	6.837E-11	2.137E-11	6.381E-12	1.851E-12	
9.89401E-01	7.475E-10	4.769E-10	1.275E-10	3.479E-11	9.549E-12	2.620E-12	
TOTAL	1.207E-09	8.852E-10	3.134E-10	1.010E-10	3.086E-11	9.118E-12	

## THERMONUCLEAR SOURCE

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINL	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	1.518E-10	1.837E-10	2.207E-10	2.309E-10	2.236E-10
-9.89401E-01	1.522E-10	1.842E-10	2.213E-10	2.316E-10	2.074E-10
-9.44575E-01	1.539E-10	1.862E-10	2.237E-10	2.340E-10	2.096E-10
-8.65631E-01	1.567E-10	1.897E-10	2.278E-10	2.383E-10	2.134E-10
-7.55044E-01	1.607E-10	1.946E-10	2.337E-10	2.446E-10	2.192E-10
-6.17876E-01	1.666E-10	2.016E-10	2.422E-10	2.535E-10	2.272E-10
-4.58017E-01	1.746E-10	2.112E-10	2.535E-10	2.654E-10	2.380E-10
-2.81605E-01	1.860E-10	2.246E-10	2.691E-10	2.817E-10	2.524E-10
-9.50125E-02	2.014E-10	2.423E-10	2.894E-10	3.029E-10	2.711E-10
9.50125E-02	2.657E-10	2.801E-10	3.398E-10	3.441E-10	2.885E-10
2.81605E-01	2.600E-10	2.981E-10	3.503E-10	3.550E-10	2.932E-10
4.58017E-01	2.942E-10	3.567E-10	3.830E-10	4.123E-10	3.408E-10
6.17876E-01	3.277E-10	4.057E-10	4.656E-10	4.658E-10	3.994E-10
7.55044E-01	4.235E-10	4.607E-10	5.360E-10	5.568E-10	4.436E-10
8.65631E-01	5.961E-10	6.492E-10	7.282E-10	7.084E-10	5.345E-10
9.44575E-01	1.122E-09	1.088E-09	1.267E-09	1.045E-09	6.679E-10
9.89401E-01	8.542E-09	7.406E-09	5.722E-09	4.487E-09	9.622E-10
TOTAL	4.921E-09	5.204E-09	5.494E-09	5.396E-09	5.046E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	1.223E-10	8.877E-11	3.108E-11	1.005E-11	3.087E-12
-9.89401E-01	1.226E-10	8.899E-11	3.116E-11	1.007E-11	3.094E-12
-9.44575E-01	1.239E-10	8.991E-11	3.148E-11	1.018E-11	3.127E-12
-8.65631E-01	1.262E-10	9.161E-11	3.208E-11	1.038E-11	3.187E-12
-7.55044E-01	1.297E-10	9.416E-11	3.299E-11	1.067E-11	3.278E-12
-6.17876E-01	1.345E-10	9.768E-11	3.424E-11	1.108E-11	3.405E-12
-4.58017E-01	1.410E-10	1.024E-10	3.593E-11	1.163E-11	3.574E-12
-2.81605E-01	1.497E-10	1.087E-10	3.815E-11	1.236E-11	3.793E-12
-9.50125E-02	1.607E-10	1.168E-10	4.095E-11	1.325E-11	4.068E-12
9.50125E-02	1.742E-10	1.270E-10	4.477E-11	1.437E-11	4.412E-12
2.81605E-01	1.923E-10	1.395E-10	4.887E-11	1.578E-11	4.841E-12
4.58017E-01	2.141E-10	1.556E-10	5.447E-11	1.758E-11	5.390E-12
6.17876E-01	2.440E-10	1.772E-10	6.196E-11	1.997E-11	6.118E-12
7.55044E-01	2.868E-10	2.082E-10	7.256E-11	2.331E-11	7.123E-12
8.65631E-01	3.553E-10	2.568E-10	8.861E-11	2.824E-11	8.573E-12
9.44575E-01	4.828E-10	3.448E-10	1.155E-10	3.605E-11	1.078E-11
9.89401E-01	1.129E-09	7.250E-10	1.974E-10	5.473E-11	1.521E-11
TOTAL	2.589E-09	1.862E-09	6.393E-10	2.042E-10	6.222E-11

3.515E-09

4.551E-09

5.046E-09

5.396E-09

5.494E-09

5.204E-09

4.921E-09

8.542E-09

1.088E-09

6.492E-10

4.607E-10

5.360E-10

4.656E-10

3.830E-10

3.567E-10

2.981E-10

2.801E-10

2.657E-10

2.423E-10

2.246E-10

2.112E-10

2.016E-10

1.860E-10

1.746E-10

1.666E-10

1.607E-10

1.567E-10

1.539E-10

1.522E-10

1.518E-10

1.837E-10

2.207E-10

2.309E-10

2.236E-10

2.074E-10

2.096E-10

2.134E-10

2.192E-10

2.272E-10

2.380E-10

2.524E-10

2.711E-10

2.885E-10

2.932E-10

3.408E-10

3.994E-10

4.436E-10

5.345E-10

6.679E-10

9.622E-10

1.045E-09

1.267E-09

1.088E-09

7.406E-09

5.722E-09

4.487E-09

3.537E-09

2.804E-09

1.771E-09

6.595E-10

4.776E-10

3.844E-10

3.256E-10

2.870E-10

3.595E-10

4.156E-10

4.656E-10

5.000E-10

1.885E-10

2.000E-10

2.148E-10

2.353E-10

2.558E-10

2.753E-10

2.948E-10

3.143E-10

3.338E-10

3.533E-10

3.728E-10

3.923E-10

4.118E-10

4.313E-10

4.508E-10

4.703E-10

4.898E-10

5.093E-10

5.288E-10

5.483E-10

5.678E-10

5.873E-10

6.068E-10

6.263E-10

6.458E-10

6.653E-10

6.848E-10

7.043E-10

7.238E-10

7.433E-10

7.628E-10

7.823E-10

8.018E-10

8.213E-10

8.408E-10

8.603E-10

8.798E-10

8.993E-10

9.188E-10

9.383E-10

9.578E-10

9.773E-10

9.968E-10

1.016E-09

1.034E-09

1.052E-09

1.070E-09

1.088E-09

1.106E-09

1.124E-09

1.142E-09

1.160E-09

1.178E-09

1.196E-09

1.214E-09

1.232E-09

1.250E-09

1.268E-09

1.286E-09

1.304E-09

1.322E-09

1.340E-09

1.358E-09

1.376E-09

1.394E-09

1.412E-09

1.430E-09

1.448E-09

1.466E-09

1.484E-09

1.502E-09

1.520E-09

1.538E-09

1.556E-09

1.574E-09

1.592E-09

1.610E-09

1.628E-09

1.646E-09

1.664E-09

1.682E-09

1.700E-09

1.718E-09

1.736E-09

1.754E-09

1.772E-09

1.790E-09



## THERMONUCLEAR SOURCE

4 PI 8\*\*2 MID-PHANTOM DOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	2.834E-11	3.419E-11	4.099E-11	4.277E-11	4.126E-11
-9.89401E-01	2.850E-11	3.437E-11	4.117E-11	4.295E-11	4.142E-11
-9.44575E-01	2.897E-11	3.491E-11	4.177E-11	4.354E-11	4.196E-11
-8.65631E-01	2.958E-11	3.564E-11	4.261E-11	4.437E-11	4.272E-11
-7.55044E-01	3.024E-11	3.646E-11	4.362E-11	4.547E-11	4.391E-11
-6.17876E-01	3.127E-11	3.769E-11	4.510E-11	4.703E-11	4.534E-11
-4.58017E-01	3.263E-11	3.933E-11	4.708E-11	4.918E-11	4.747E-11
-2.81605E-01	3.490E-11	4.199E-11	5.020E-11	5.244E-11	5.064E-11
-9.50125E-02	3.816E-11	4.575E-11	5.450E-11	5.694E-11	5.496E-11
9.50125E-02	5.282E-11	5.213E-11	6.309E-11	6.594E-11	6.416E-11
2.81605E-01	5.014E-11	5.777E-11	6.842E-11	6.792E-11	6.501E-11
4.58017E-01	5.731E-11	7.044E-11	7.541E-11	8.076E-11	7.810E-11
6.17876E-01	6.638E-11	7.925E-11	9.041E-11	9.198E-11	8.778E-11
7.55044E-01	9.572E-11	9.967E-11	1.132E-10	1.163E-10	1.118E-10
8.65631E-01	1.364E-10	1.496E-10	1.642E-10	1.611E-10	1.529E-10
9.44575E-01	3.281E-10	3.08E-10	2.907E-10	2.815E-10	2.596E-10
9.89401E-01	3.323E-09	2.921E-09	2.283E-09	1.800E-09	1.418E-09
TOTAL	1.303E-09	1.310E-09	1.307E-09	1.244E-09	1.139E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	2.194E-11	1.577E-11	5.421E-12	1.738E-12	5.314E-13
-9.89401E-01	2.200E-11	1.581E-11	5.436E-12	1.743E-12	5.328E-13
-9.44575E-01	2.227E-11	1.600E-11	5.496E-12	1.762E-12	5.385E-13
-8.65631E-01	2.268E-11	1.630E-11	5.602E-12	1.796E-12	5.490E-13
-7.55044E-01	2.331E-11	1.676E-11	5.761E-12	1.848E-12	5.652E-13
-6.17876E-01	2.414E-11	1.737E-11	5.984E-12	1.922E-12	5.882E-13
-4.58017E-01	2.536E-11	1.826E-11	6.303E-12	2.026E-12	6.201E-13
-2.81605E-01	2.711E-11	1.953E-11	6.745E-12	2.167E-12	6.632E-13
-9.50125E-02	2.944E-11	2.122E-11	7.325E-12	2.352E-12	7.191E-13
9.50125E-02	3.236E-11	2.340E-11	8.068E-12	2.587E-12	7.906E-13
2.81605E-01	3.622E-11	2.609E-11	9.013E-12	2.891E-12	8.834E-13
4.58017E-01	4.105E-11	2.968E-11	1.029E-11	3.306E-12	1.011E-12
6.17876E-01	4.827E-11	3.497E-11	1.219E-11	3.926E-12	1.202E-12
7.55044E-01	6.031E-11	4.384E-11	1.532E-11	4.929E-12	1.507E-12
8.65631E-01	8.307E-11	6.027E-11	2.088E-11	6.651E-12	2.015E-12
9.44575E-01	1.325E-10	9.489E-11	3.171E-11	9.799E-12	2.899E-12
9.89401E-01	4.381E-10	2.76CE-10	7.071E-11	1.858E-11	4.943E-12
TOTAL	5.526E-10	3.92CE-10	1.310E-10	4.119E-11	1.242E-11

1800.0  
1.572E-13  
1.576E-13  
1.592E-13  
1.624E-13  
1.672E-13  
1.741E-13  
1.836E-13  
1.962E-13  
2.126E-13  
2.337E-13  
2.611E-13  
2.991E-13  
3.588E-13  
4.450E-13  
5.907E-13  
8.340E-13  
1.323E-12  
3.638E-12

## THERMONUCLEAR SOURCE

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	7.351E-10	8.655E-10	1.018E-09	1.065E-09	1.045E-09
-9.89401E-01	7.404E-10	8.713E-10	1.024E-09	1.071E-09	1.050E-09
-9.44575E-01	7.561E-10	8.890E-10	1.043E-09	1.090E-09	1.068E-09
-8.65631E-01	7.766E-10	9.128E-10	1.070E-09	1.117E-09	1.092E-09
-7.55044E-01	7.981E-10	9.388E-10	1.101E-09	1.151E-09	1.130E-09
-6.17876E-01	8.305E-10	9.770E-10	1.147E-09	1.199E-09	1.175E-09
-4.58017E-01	8.719E-10	1.026E-09	1.206E-09	1.266E-09	1.241E-09
-2.81505E-01	9.408E-10	1.106E-09	1.300E-09	1.363E-09	1.339E-09
-9.50125E-02	1.041E-09	1.222E-09	1.433E-09	1.502E-09	1.475E-09
9.50125E-02	1.485E-09	1.405E-09	1.742E-09	1.713E-09	1.545E-09
2.81805E-01	1.445E-09	1.639E-09	1.901E-09	1.889E-09	1.787E-09
4.58017E-01	1.611E-09	1.958E-09	2.054E-09	2.273E-09	2.225E-09
6.17876E-01	1.974E-09	2.353E-09	2.689E-09	2.686E-09	2.601E-09
7.55044E-01	2.929E-09	3.011E-09	3.334E-09	3.483E-09	3.373E-09
8.65631E-01	4.230E-09	4.630E-09	5.094E-09	4.945E-09	4.711E-09
9.44575E-01	1.033E-08	9.431E-09	9.025E-09	8.718E-09	8.007E-09
9.89401E-01	1.050E-08	9.134E-08	7.010E-08	5.443E-08	4.234E-08
TOTAL	3.931E-08	3.875E-08	3.777E-08	3.556E-08	3.263E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	6.307E-10	4.712E-10	1.725E-10	5.657E-11	1.747E-11
-9.89401E-01	6.332E-10	4.729E-10	1.731E-10	5.675E-11	1.753E-11
-9.44575E-01	6.425E-10	4.797E-10	1.754E-10	5.749E-11	1.776E-11
-8.65631E-01	6.577E-10	4.911E-10	1.796E-10	5.887E-11	1.818E-11
-7.55044E-01	6.803E-10	5.080E-10	1.858E-10	6.093E-11	1.883E-11
-6.17876E-01	7.097E-10	5.305E-10	1.944E-10	6.382E-11	1.973E-11
-4.58017E-01	7.521E-10	5.626E-10	2.075E-10	6.780E-11	2.096E-11
-2.81505E-01	8.122E-10	6.076E-10	2.229E-10	7.315E-11	2.261E-11
-9.50125E-02	8.929E-10	6.675E-10	2.444E-10	8.013E-11	2.473E-11
9.50125E-02	9.978E-10	7.455E-10	2.722E-10	8.904E-11	2.745E-11
2.81505E-01	1.133E-09	8.444E-10	3.074E-10	1.004E-10	3.092E-11
4.58017E-01	1.307E-09	9.738E-10	3.537E-10	1.154E-10	3.549E-11
6.17876E-01	1.556E-09	1.157E-09	4.188E-10	1.363E-10	4.184E-11
7.55044E-01	1.951E-09	1.445E-09	5.179E-10	1.674E-10	5.113E-11
8.65631E-01	2.651E-09	1.944E-09	6.812E-10	2.166E-10	6.540E-11
9.44575E-01	4.097E-09	2.938E-09	9.792E-10	3.008E-10	8.853E-11
9.89401E-01	1.263E-08	7.900E-09	2.000E-09	5.229E-10	1.390E-10
TOTAL	1.696E-08	1.232E-08	4.283E-09	1.366E-09	4.144E-10

2.274E-08

2.931E-08

3.263E-08

3.556E-08

3.777E-08

3.875E-08

3.931E-08

4.234E-08

4.711E-09

5.443E-08

6.076E-10

7.010E-08



(CM**2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)		THERMONUCLEAR SOURCE									
		RANGE (METERS)									
		200.C									
COSINE		75.0	100.0	150.0	200.0	250.0	300.0	400.0			
-1.00000E 00		9.124E-10	1.139E-C9	1.466E-09	1.623E-C9	1.636E-09	1.554E-C9	1.255E-09			
-9.89401E-01		9.204E-10	1.147E-09	1.475E-09	1.631E-09	1.644E-09	1.560E-C9	1.260E-09			
-9.44575E-01		9.424E-10	1.172E-09	1.502E-09	1.658E-09	1.669E-09	1.585E-09	1.277E-09			
-8.65631E-01		9.679E-10	1.202E-09	1.537E-09	1.692E-09	1.701E-09	1.613E-C9	1.302E-09			
-7.55044E-01		9.897E-10	1.236E-09	1.573E-09	1.734E-09	1.749E-09	1.659E-C9	1.339E-09			
-6.17876E-01		1.023E-09	1.270E-09	1.623E-09	1.791E-09	1.803E-09	1.711E-C9	1.383E-09			
-4.58017E-01		1.062E-09	1.319E-09	1.687E-09	1.866E-09	1.882E-09	1.788E-09	1.448E-09			
-2.81605E-01		1.137E-09	1.407E-09	1.797E-09	1.986E-09	2.003E-09	1.904E-09	1.544E-09			
-9.50125E-02		1.249E-09	1.538E-09	1.954E-09	2.155E-09	2.171E-09	2.063E-09	1.674E-09			
9.50125E-02		1.788E-09	1.691E-09	2.204E-09	2.461E-09	2.482E-09	2.251E-09	1.848E-09			
2.81605E-01		1.678E-09	2.012E-09	2.534E-09	2.603E-09	2.605E-09	2.555E-09	2.056E-09			
4.58017E-01		1.876E-09	2.356E-09	2.706E-09	3.089E-09	3.095E-09	2.864E-09	2.337E-09			
6.17876E-01		2.312E-09	2.799E-09	3.364E-09	3.543E-09	3.521E-09	3.390E-C9	2.741E-09			
7.55044E-01		3.604E-09	3.732E-09	4.265E-09	4.587E-09	4.536E-09	4.229E-C9	3.434E-09			
8.65631E-01		5.121E-09	5.767E-09	6.515E-09	6.533E-09	6.348E-09	5.957E-C9	4.767E-09			
9.44575E-01		1.397E-C8	1.255E-C8	1.222E-C8	1.196E-C8	1.113E-C8	1.007E-C9	7.805E-C9			
9.89401E-01		1.548E-C7	1.357E-07	1.052E-07	8.234E-08	6.439E-08	5.050E-08	3.109E-08			
TOTAL		5.274E-C8	5.226E-C8	5.223E-C8	5.056E-C8	4.712E-08	4.257E-C8	3.266E-08			

		RANGE (METERS)									
		200.C									
COSINE		75.0	100.0	150.0	200.0	250.0	300.0	400.0			
-1.00000E 00		9.364E-10	6.733E-10	2.299E-10	7.360E-11	2.252E-11	6.66E-12	1.255E-12			
-9.89401E-01		9.397E-10	6.759E-10	2.306E-10	7.386E-11	2.258E-11	6.68E-12	1.260E-12			
-9.44575E-01		9.519E-10	6.840E-10	2.332E-10	7.462E-11	2.283E-11	6.758E-12	1.277E-12			
-8.65631E-01		9.707E-10	6.975E-10	2.379E-10	7.611E-11	2.328E-11	6.893E-12	1.302E-12			
-7.55044E-01		9.983E-10	7.175E-10	2.448E-10	7.834E-11	2.397E-11	7.098E-12	1.339E-12			
-6.17876E-01		1.033E-09	7.432E-10	2.542E-10	8.146E-11	2.495E-11	7.391E-12	1.383E-12			
-4.58017E-01		1.083E-09	7.807E-10	2.676E-10	8.585E-11	2.630E-11	7.793E-12	1.448E-12			
-2.81605E-01		1.157E-09	8.342E-10	2.863E-10	9.184E-11	2.813E-11	8.332E-12	1.544E-12			
-9.50125E-02		1.255E-09	9.058E-10	3.111E-10	9.972E-11	3.052E-11	9.034E-12	1.674E-12			
9.50125E-02		1.383E-09	9.992E-10	3.431E-10	1.099E-10	3.360E-11	9.939E-12	1.848E-12			
2.81605E-01		1.546E-09	1.117E-09	3.841E-10	1.230E-10	3.760E-11	1.112E-11	1.544E-12			
4.58017E-01		1.757E-09	1.273E-09	4.393E-10	1.408E-10	4.307E-11	1.274E-11	1.848E-12			
6.17876E-01		2.068E-09	1.502E-09	5.207E-10	1.671E-10	5.108E-11	1.510E-11	2.056E-12			
7.55044E-01		2.591E-09	1.884E-09	6.531E-10	2.088E-10	6.357E-11	1.872E-11	2.337E-12			
8.65631E-01		3.579E-09	2.591E-09	8.859E-10	2.791E-10	8.393E-11	2.448E-11	3.109E-12			
9.44575E-01		5.732E-09	4.079E-09	1.335E-09	4.058E-10	1.186E-10	3.385E-11	4.767E-12			
9.89401E-01		1.923E-C8	1.195E-C8	2.956E-09	7.567E-10	1.977E-10	5.227E-11	7.805E-12			
TOTAL		2.376E-C8	1.682E-C8	5.560E-C9	1.737E-09	5.225E-10	1.528E-10	3.266E-08			

## THERMONUCLEAR SOURCE

4 PI R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	8.562E-11	9.633E-11	1.060E-10	1.102E-10	1.062E-10
-9.89401E-01	8.772E-11	9.851E-11	1.101E-10	1.120E-10	1.078E-10
-9.44575E-01	9.282E-11	1.040E-10	1.157E-10	1.124E-10	1.042E-10
-8.65631E-01	9.710E-11	1.088E-10	1.266E-10	1.215E-10	1.073E-10
-7.55044E-01	9.829E-11	1.104E-10	1.230E-10	1.247E-10	1.209E-10
-6.17876E-01	1.012E-10	1.138E-10	1.271E-10	1.291E-10	1.240E-10
-4.58017E-01	1.044E-10	1.177E-10	1.326E-10	1.363E-10	1.320E-10
-2.81605E-01	1.169E-10	1.321E-10	1.497E-10	1.543E-10	1.499E-10
-9.50125E-02	1.385E-10	1.569E-10	1.795E-10	1.835E-10	1.782E-10
2.81605E-01	2.472E-10	1.732E-10	2.099E-10	2.303E-10	2.236E-10
4.58017E-01	2.130E-10	2.425E-10	2.855E-10	2.673E-10	2.579E-10
6.17876E-01	2.534E-10	3.015E-10	3.283E-10	3.400E-10	3.283E-10
7.55044E-01	3.405E-10	3.710E-10	4.030E-10	4.207E-10	4.080E-10
8.65631E-01	6.722E-10	6.231E-10	6.275E-10	6.335E-10	6.097E-10
9.44575E-01	9.798E-10	1.073E-09	1.128E-09	1.101E-09	1.056E-09
9.89401E-01	3.367E-09	2.899E-09	2.714E-09	2.566E-09	2.349E-09
	4.384E-08	3.863E-08	3.013E-08	2.366E-08	1.852E-08
TOTAL	1.173E-08	1.079E-08	9.540E-09	8.430E-09	7.348E-09

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	6.102E-11	4.488E-11	1.577E-11	5.004E-12	1.509E-12
-9.89401E-01	6.160E-11	4.527E-11	1.587E-11	5.039E-12	1.517E-12
-9.44575E-01	6.352E-11	4.656E-11	1.626E-11	5.145E-12	1.548E-12
-8.65631E-01	6.560E-11	4.811E-11	1.681E-11	5.320E-12	1.600E-12
-7.55044E-01	6.849E-11	5.024E-11	1.757E-11	5.560E-12	1.676E-12
-6.17876E-01	7.138E-11	5.259E-11	1.856E-11	5.912E-12	1.785E-12
-4.58017E-01	7.726E-11	5.712E-11	2.037E-11	6.467E-12	1.954E-12
-2.81605E-01	8.801E-11	6.504E-11	2.301E-11	7.315E-12	2.204E-12
-9.50125E-02	1.039E-10	7.658E-11	2.687E-11	8.498E-12	2.547E-12
2.81605E-01	1.253E-10	9.191E-11	3.194E-11	1.003E-11	2.992E-12
4.58017E-01	1.510E-10	1.106E-10	3.825E-11	1.199E-11	3.573E-12
6.17876E-01	1.843E-10	1.351E-10	4.659E-11	1.479E-11	4.427E-12
7.55044E-01	2.391E-10	1.760E-10	6.181E-11	1.959E-11	5.889E-12
8.65631E-01	3.505E-10	2.583E-10	9.688E-11	2.879E-11	8.635E-12
9.44575E-01	5.990E-10	4.381E-10	1.511E-10	4.710E-11	1.393E-11
9.89401E-01	1.209E-09	8.651E-10	2.832E-10	8.483E-11	2.431E-11
	5.500E-09	3.404E-09	8.235E-10	2.045E-10	5.148E-11
TOTAL	3.289E-09	2.299E-09	7.330E-10	2.199E-10	6.373E-11

6.346E-09 4.624E-09 1.808E-11

## THERMONUCLEAR SOURCE

4 PI R\*\*2 NON IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	75.0	100.0	150.0	RANGE (METERS) 200.0	250.0	300.0	400.0
-1.00000E 00	6.229E-11	7.388E-11	8.906E-11	9.547E-11	9.556E-11	9.165E-11	7.758E-11
-9.99401E-01	6.257E-11	7.419E-11	8.941E-11	9.582E-11	9.590E-11	9.197E-11	7.783E-11
-9.44575E-01	6.343E-11	7.520E-11	9.061E-11	9.709E-11	9.716E-11	9.318E-11	7.886E-11
-8.65631E-01	6.470E-11	7.675E-11	9.253E-11	9.915E-11	9.922E-11	9.521E-11	8.065E-11
-7.55044E-01	6.633E-11	7.877E-11	9.515E-11	1.022E-10	1.025E-10	9.841E-11	8.343E-11
-6.17876E-01	6.891E-11	8.191E-11	9.912E-11	1.066E-10	1.069E-10	1.028E-10	8.726E-11
-4.58017E-01	7.256E-11	8.632E-11	1.047E-10	1.128E-10	1.133E-10	1.091E-10	9.275E-11
-2.81605E-01	7.834E-11	9.320E-11	1.131E-10	1.219E-10	1.226E-10	1.180E-10	1.004E-10
-9.50125E-02	8.667E-11	1.030E-10	1.249E-10	1.346E-10	1.353E-10	1.302E-10	1.107E-10
9.50125E-02	1.278E-10	1.134E-10	1.372E-10	1.527E-10	1.530E-10	1.467E-10	1.239E-10
2.81605E-01	1.181E-10	1.389E-10	1.691E-10	1.721E-10	1.726E-10	1.671E-10	1.417E-10
4.58017E-01	1.356E-10	1.543E-10	1.820E-10	2.059E-10	2.056E-10	1.951E-10	1.646E-10
6.17876E-01	1.655E-10	2.093E-10	2.432E-10	2.459E-10	2.446E-10	2.351E-10	1.975E-10
7.55044E-01	2.457E-10	2.608E-10	2.932E-10	3.206E-10	3.158E-10	2.976E-10	2.476E-10
8.65631E-01	3.481E-10	3.950E-10	4.523E-10	4.478E-10	4.343E-10	4.079E-10	3.330E-10
9.44575E-01	8.353E-10	7.822E-10	7.705E-10	7.579E-10	7.071E-10	6.429E-10	5.047E-10
9.89401E-01	7.827E-09	6.831E-09	5.272E-09	4.118E-09	3.226E-09	2.543E-09	1.594E-09
TOTAL	3.111E-09	3.115E-09	3.144E-09	3.061E-09	2.879E-09	2.646E-09	2.118E-09

COSINE	500.0	600.0	900.0	RANGE (METERS) 1200.0	1500.0	1800.0
-1.00000E 00	6.126E-11	4.629E-11	1.722E-11	5.678E-12	1.759E-12	5.242E-13
-9.89401E-01	6.146E-11	4.644E-11	1.727E-11	5.696E-12	1.764E-12	5.259E-13
-9.44575E-01	6.226E-11	4.705E-11	1.750E-11	5.773E-12	1.788E-12	5.330E-13
-8.65631E-01	6.372E-11	4.817E-11	1.794E-11	5.917E-12	1.833E-12	5.466E-13
-7.55044E-01	6.596E-11	4.989E-11	1.859E-11	6.137E-12	1.902E-12	5.673E-13
-6.17876E-01	6.907E-11	5.229E-11	1.952E-11	6.450E-12	2.000E-12	5.967E-13
-4.58017E-01	7.349E-11	5.567E-11	2.081E-11	6.877E-12	2.133E-12	6.364E-13
-2.81605E-01	7.959E-11	6.030E-11	2.253E-11	7.447E-12	2.309E-12	6.888E-13
-9.50125E-02	8.769E-11	6.641E-11	2.479E-11	8.185E-12	2.536E-12	7.562E-13
9.50125E-02	9.829E-11	7.433E-11	2.768E-11	9.129E-12	2.826E-12	8.421E-13
2.81605E-01	1.118E-10	8.452E-11	3.139E-11	1.034E-11	3.197E-12	9.521E-13
4.58017E-01	1.298E-10	9.792E-11	3.626E-11	1.192E-11	3.684E-12	1.096E-12
6.17876E-01	1.550E-10	1.166E-10	4.296E-11	1.409E-11	4.345E-12	1.291E-12
7.55044E-01	1.931E-10	1.445E-10	5.272E-11	1.718E-11	5.280E-12	1.565E-12
8.65631E-01	2.562E-10	1.898E-10	6.784E-11	2.184E-11	6.652E-12	1.959E-12
9.44575E-01	3.776E-10	2.738E-10	9.368E-11	2.934E-11	8.770E-12	2.546E-12
9.89401E-01	1.011E-09	6.462E-10	1.736E-10	4.754E-11	1.308E-11	3.595E-12
TOTAL	1.617E-09	1.194E-09	4.269E-10	1.380E-10	4.221E-11	1.248E-11

## THERMONUCLEAR SOURCE

<sup>4</sup>PI R\*\*2 HENDERSON DOSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	2.563E-12	3.078E-12	3.817E-12	4.171E-12	4.202E-12
-9.89401E-01	2.579E-12	3.100E-12	3.849E-12	4.211E-12	4.249E-12
-9.44575E-01	2.639E-12	3.180E-12	3.969E-12	4.363E-12	4.423E-12
-8.65631E-01	2.750E-12	3.326E-12	4.178E-12	4.623E-12	4.716E-12
-7.55044E-01	2.902E-12	3.520E-12	4.449E-12	4.947E-12	5.071E-12
-6.17876E-01	3.098E-12	3.765E-12	4.777E-12	5.331E-12	5.479E-12
-4.58017E-01	3.350E-12	4.076E-12	5.188E-12	5.810E-12	5.987E-12
-2.81605E-01	3.684E-12	4.488E-12	5.737E-12	6.458E-12	6.684E-12
-9.50125E-02	4.136E-12	5.046E-12	6.491E-12	7.364E-12	7.681E-12
9.50125E-02	4.629E-12	5.603E-12	6.498E-12	9.138E-12	9.633E-12
2.81605E-01	6.077E-12	7.584E-12	1.004E-11	9.875E-12	1.054E-11
4.58017E-01	7.433E-12	7.695E-12	1.319E-11	1.319E-11	1.423E-11
6.17876E-01	8.451E-12	1.142E-11	1.497E-11	1.592E-11	1.741E-11
7.55044E-01	1.160E-11	1.412E-11	1.774E-11	2.230E-11	2.460E-11
8.65631E-01	1.736E-11	2.085E-11	2.840E-11	3.220E-11	3.565E-11
9.44575E-01	2.880E-11	3.658E-11	4.723E-11	5.628E-11	6.202E-11
9.89401E-01	7.339E-11	9.176E-11	1.220E-10	1.426E-10	1.563E-10
TOTAL	9.258E-11	1.133E-10	1.464E-10	1.707E-10	1.841E-10
					1.888E-10
					1.808E-10

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	2.544E-12	1.879E-12	6.859E-13	2.332E-13	7.618E-14
-9.89401E-01	2.598E-12	1.931E-12	7.287E-13	2.605E-13	9.177E-14
-9.44575E-01	2.792E-12	2.112E-12	8.471E-13	3.357E-13	1.353E-13
-8.65631E-01	3.083E-12	2.373E-12	1.024E-12	4.298E-13	1.816E-13
-7.55044E-01	3.373E-12	2.613E-12	1.148E-12	4.947E-13	2.166E-13
-6.17876E-01	3.645E-12	2.811E-12	1.200E-12	4.996E-13	2.035E-13
-4.58017E-01	3.960E-12	3.026E-12	1.241E-12	4.779E-13	1.885E-13
-2.81605E-01	4.444E-12	3.380E-12	1.357E-12	5.279E-13	2.052E-13
-9.50125E-02	5.232E-12	4.011E-12	1.638E-12	6.513E-13	2.621E-13
9.50125E-02	6.438E-12	4.977E-12	2.107E-12	8.723E-13	3.670E-13
2.81605E-01	8.192E-12	6.397E-12	2.757E-12	1.156E-12	4.897E-13
4.58017E-01	1.079E-11	8.509E-12	3.676E-12	1.511E-12	6.183E-13
6.17876E-01	1.495E-11	1.201E-11	5.293E-12	2.151E-12	8.562E-13
7.55044E-01	2.229E-11	1.852E-11	8.760E-12	3.726E-12	1.542E-12
8.65631E-01	3.612E-11	3.145E-11	1.682E-11	7.872E-12	3.540E-12
9.44575E-01	6.523E-11	5.925E-11	3.632E-11	1.904E-11	9.332E-12
9.89401E-01	1.609E-10	1.475E-10	9.732E-11	5.600E-11	2.990E-11
TOTAL	1.596E-10	1.344E-10	7.020E-11	3.380E-11	1.582E-11
					7.345E-12

## THERMONUCLEAR SOURCE

<sup>4</sup>PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E 00	2.612E-10	3.169E-10	4.003E-10	4.452E-10	4.566E-10
-9.89401E-01	2.627E-10	3.190E-10	4.035E-10	4.492E-10	4.613E-10
-9.44575E-01	2.687E-10	3.270E-10	4.154E-10	4.643E-10	4.786E-10
-8.65631E-01	2.797E-10	3.414E-10	4.362E-10	4.902E-10	5.079E-10
-7.55044E-01	2.948E-10	3.607E-10	4.632E-10	5.228E-10	5.436E-10
-6.17876E-01	3.142E-10	3.850E-10	4.960E-10	5.613E-10	5.848E-10
-4.58017E-01	3.392E-10	4.160E-10	5.372E-10	6.095E-10	6.361E-10
-2.81605E-01	3.723E-10	4.569E-10	5.920E-10	6.745E-10	7.064E-10
-9.50125E-02	4.171E-10	5.123E-10	6.671E-10	7.652E-10	8.065E-10
9.50125E-02	4.659E-10	5.671E-10	7.671E-10	9.419E-10	1.001E-09
2.81605E-01	6.067E-10	7.640E-10	1.020E-09	1.016E-09	1.092E-09
4.58017E-01	7.443E-10	9.742E-10	1.344E-09	1.344E-09	1.459E-09
6.17876E-01	8.413E-10	1.146E-09	1.509E-09	1.616E-09	1.775E-09
7.55044E-01	1.157E-09	1.405E-09	1.800E-09	2.247E-09	2.487E-09
8.65631E-01	1.726E-09	2.075E-09	2.838E-09	3.225E-09	3.579E-09
9.44575E-01	2.855E-09	3.633E-09	4.693E-09	5.606E-09	6.188E-09
9.89401E-01	7.272E-09	9.096E-09	1.212E-08	1.418E-08	1.555E-08
TOTAL	9.255E-09	1.137E-08	1.480E-08	1.735E-08	1.882E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E 00	3.045E-10	2.343E-10	9.704E-11	3.794E-11	1.466E-11
-9.89401E-01	3.099E-10	2.395E-10	1.013E-10	4.083E-11	1.620E-11
-9.44575E-01	3.293E-10	2.577E-10	1.131E-10	4.813E-11	1.852E-11
-8.65631E-01	3.586E-10	2.840E-10	1.309E-10	5.756E-11	2.052E-11
-7.55044E-01	3.882E-10	3.085E-10	1.437E-10	6.425E-11	2.518E-11
-6.17876E-01	4.164E-10	3.294E-10	1.596E-10	6.514E-11	2.873E-11
-4.58017E-01	4.493E-10	3.522E-10	1.746E-10	6.353E-11	2.766E-11
-2.81605E-01	4.992E-10	3.891E-10	1.672E-10	6.894E-11	2.640E-11
9.50125E-02	5.793E-10	4.526E-10	1.961E-10	8.166E-11	2.826E-11
2.81605E-01	7.010E-10	5.512E-10	2.437E-10	1.040E-10	3.411E-11
4.58017E-01	8.769E-10	6.939E-10	3.092E-10	1.326E-10	4.469E-11
6.17876E-01	1.136E-09	9.051E-10	4.015E-10	1.682E-10	5.704E-11
7.55044E-01	1.551E-09	1.254E-09	5.616E-10	2.314E-10	6.994E-11
8.65631E-01	2.277E-09	1.898E-09	9.035E-10	3.860E-10	9.336E-11
9.44575E-01	3.645E-09	3.176E-09	1.699E-09	7.935E-10	1.603E-10
9.89401E-01	6.528E-09	5.930E-09	3.630E-09	1.898E-09	3.560E-10
TOTAL	1.659E-08	1.403E-08	7.384E-09	3.563E-09	1.668E-09

1800.0

1500.0

1200.0

900.0

600.0

500.0

COSINE

TOTAL

7.743E-10

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CH\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

4 PI R\*\*2 AIR KERMA (GAMMAS)  
(CH\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)						
	75.0	100.0	150.0	200.0	250.0	300.0	400.0
-1.00000E-00	3.047E-10	3.913E-10	5.414E-10	6.496E-10	7.142E-10	7.420E-10	7.197E-10
-9.89401E-01	3.062E-10	3.933E-10	5.445E-10	6.537E-10	7.190E-10	7.472E-10	7.253E-10
-9.44575E-01	3.120E-10	4.011E-10	5.564E-10	6.689E-10	7.368E-10	7.667E-10	7.462E-10
-8.65631E-01	3.226E-10	4.153E-10	5.774E-10	6.956E-10	7.674E-10	7.996E-10	7.801E-10
-7.55044E-01	3.373E-10	4.344E-10	6.049E-10	7.296E-10	8.058E-10	8.397E-10	8.193E-10
-6.17876E-01	3.562E-10	4.586E-10	6.387E-10	7.707E-10	8.508E-10	8.864E-10	8.627E-10
-4.58017E-01	3.806E-10	4.895E-10	6.815E-10	8.223E-10	9.076E-10	9.446E-10	9.161E-10
-2.81603E-01	4.129E-10	5.302E-10	7.380E-10	8.913E-10	9.842E-10	1.024E-09	9.906E-10
-9.50125E-02	4.563E-10	5.850E-10	8.145E-10	9.859E-10	1.091E-09	1.136E-09	1.099E-10
2.81605E-01	5.039E-10	6.410E-10	8.249E-10	1.162E-09	1.287E-09	1.283E-09	1.254E-09
4.58017E-01	6.394E-10	8.263E-10	1.158E-09	1.246E-09	1.392E-09	1.516E-09	1.468E-09
6.17876E-01	7.664E-10	8.432E-10	1.145E-09	1.567E-09	1.752E-09	1.796E-09	1.771E-09
7.55044E-01	8.631E-10	1.190E-09	1.635E-09	1.838E-09	2.071E-09	2.243E-09	2.224E-09
8.65631E-01	1.155E-09	1.444E-09	1.905E-09	2.444E-09	2.758E-09	2.911E-09	2.959E-09
9.44575E-01	1.686E-09	2.068E-09	2.895E-09	3.374E-09	3.799E-09	4.109E-09	4.257E-09
9.89401E-01	2.736E-09	3.512E-09	4.631E-09	5.596E-09	6.236E-09	6.643E-09	6.946E-09
9.44575E-01	6.811E-09	8.557E-09	1.147E-08	1.350E-08	1.486E-08	1.569E-08	1.610E-08
TOTAL	9.492E-09	1.200E-08	1.633E-08	1.978E-08	2.204E-08	2.322E-08	2.323E-08

RANGE (METERS)  
900.0

RANGE (METERS)  
1200.0

RANGE (METERS)  
1800.0

COSINE	500.0	600.0	900.0	120C.C	1500.0	1800.0
-1.00000E+00	6.412E-10	5.436E-10	2.840E-10	1.337E-10	6.082E-11	2.746E-11
-9.89401E-01	6.468E-10	5.489E-10	2.883E-10	1.364E-10	6.232E-11	2.823E-11
-9.44575E-01	6.672E-10	5.682E-10	3.006E-10	1.440E-10	6.663E-11	3.055E-11
-8.65631E-01	6.995E-10	5.971E-10	3.199E-10	1.541E-10	7.157E-11	3.294E-11
-7.55044E-01	7.344E-10	6.268E-10	3.359E-10	1.624E-10	7.588E-11	3.502E-11
-6.17876E-01	7.708E-10	6.557E-10	3.472E-10	1.662E-10	7.627E-11	3.487E-11
-4.58017E-01	8.145E-10	6.892E-10	3.594E-10	1.685E-10	7.689E-11	3.464E-11
-2.81605E-01	8.771E-10	7.387E-10	3.802E-10	1.780E-10	8.074E-11	3.655E-11
-9.50125E-02	9.712E-10	8.158E-10	4.178E-10	1.931E-10	8.857E-11	4.020E-11
2.81605E-01	1.070E-09	9.287E-10	4.745E-10	2.219E-10	1.011E-10	4.588E-11
4.58017E-01	1.297E-09	1.086E-09	5.498E-10	2.554E-10	1.158E-10	5.243E-11
6.17876E-01	1.568E-09	1.310E-09	6.522E-10	2.966E-10	1.315E-10	5.811E-11
7.55044E-01	1.987E-09	1.665E-09	8.194E-10	3.646E-10	1.576E-10	6.775E-11
8.65631E-01	2.695E-09	2.294E-09	1.156E-09	5.178E-10	2.244E-10	9.686E-11
9.44575E-01	3.996E-09	3.507E-09	1.909E-09	9.037E-10	4.099E-10	1.839E-10
9.89401E-01	6.682E-09	6.068E-09	3.697E-09	1.925E-09	9.384E-10	4.448E-10
TOTAL	1.542E-08	1.412E-08	9.252E-09	5.237E-09	2.809E-09	1.429E-09
	2.120E-08	1.832E-08	9.993E-09	4.887E-09	2.299E-09	1.067E-09

## THERMONUCLEAR SOURCE

4 PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	75.0	100.0	150.0	200.0	250.0
-1.00000E-00	2.689E-10	3.273E-10	4.162E-10	4.659E-10	4.811E-10
-9.89401E-01	2.705E-10	3.295E-10	4.194E-10	4.700E-10	4.858E-10
-9.44575E-01	2.766E-10	3.376E-10	4.316E-10	4.854E-10	5.036E-10
-8.6531E-01	2.878E-10	3.524E-10	4.529E-10	5.119E-10	5.335E-10
-7.55044E-01	3.032E-10	3.721E-10	4.804E-10	5.451E-10	5.698E-10
-6.17876E-01	3.230E-10	3.969E-10	5.139E-10	5.845E-10	6.119E-10
-4.58017E-01	3.485E-10	4.285E-10	5.559E-10	6.336E-10	6.642E-10
-2.81605E-01	3.824E-10	4.702E-10	6.118E-10	6.998E-10	7.358E-10
-9.50125E-02	4.280E-10	5.267E-10	6.884E-10	7.922E-10	8.378E-10
9.50125E-02	4.778E-10	5.826E-10	7.888E-10	9.726E-10	1.036E-09
2.81605E-01	6.209E-10	7.838E-10	1.049E-09	1.047E-09	1.128E-09
4.58017E-01	7.630E-10	7.936E-10	1.018E-09	1.383E-09	1.503E-09
6.17876E-01	8.605E-10	1.175E-09	1.548E-09	1.659E-09	1.824E-09
7.55044E-01	1.184E-09	1.437E-09	1.822E-09	2.304E-09	2.552E-09
8.6531E-01	1.766E-09	2.123E-09	2.906E-09	3.303E-09	3.666E-09
9.44575E-01	2.920E-09	3.718E-09	4.800E-09	5.737E-09	6.334E-09
9.89401E-01	7.443E-09	9.310E-09	1.240E-08	1.452E-08	1.593E-08
TOTAL	9.482E-09	1.166E-08	1.520E-08	1.786E-08	1.939E-08

COSINE	RANGE (METERS)				
	500.0	600.0	900.0	1200.0	1500.0
-1.00000E-00	3.322E-10	2.590E-10	1.111E-10	4.478E-11	1.780E-11
-9.89401E-01	3.377E-10	2.644E-10	1.155E-10	4.754E-11	1.939E-11
-9.44575E-01	3.515E-10	2.830E-10	1.276E-10	5.255E-11	2.382E-11
-8.6531E-01	3.787E-10	3.099E-10	1.458E-10	6.491E-11	2.861E-11
-7.55044E-01	4.178E-10	3.349E-10	1.589E-10	7.173E-11	3.223E-11
-6.17876E-01	4.464E-10	3.561E-10	1.648E-10	7.257E-11	3.110E-11
-4.58017E-01	4.797E-10	3.791E-10	1.697E-10	7.080E-11	2.974E-11
-2.81605E-01	5.302E-10	4.164E-10	1.823E-10	7.617E-11	3.155E-11
-9.50125E-02	6.117E-10	4.808E-10	2.115E-10	8.902E-11	3.747E-11
9.50125E-02	7.354E-10	5.809E-10	2.598E-10	1.117E-10	4.819E-11
2.81605E-01	9.143E-10	7.259E-10	3.261E-10	1.405E-10	6.066E-11
4.58017E-01	1.178E-09	9.405E-10	4.194E-10	1.763E-10	7.355E-11
6.17876E-01	1.600E-09	1.295E-09	5.816E-10	2.401E-10	9.698E-11
7.55044E-01	2.341E-09	1.951E-09	9.294E-10	3.969E-10	1.647E-10
8.6531E-01	3.738E-09	3.257E-09	1.741E-09	8.126E-10	3.643E-10
9.44575E-01	6.688E-09	6.076E-09	3.719E-09	1.945E-09	9.509E-10
9.89401E-01	1.647E-08	1.512E-08	9.990E-09	5.756E-09	3.077E-09
TOTAL	1.720E-08	1.456E-08	7.681E-09	3.708E-09	1.737E-09

1.934E-08

1.939E-08

1.786E-08

1.520E-08

1.166E-08

9.482E-09

7.443E-09

3.718E-09

1.240E-08

1.452E-08

1.593E-08

1800.0

1500.0

1200.0

900.0

600.0

500.0

COSINE

-1.00000E-00

-9.89401E-01

-9.44575E-01

-8.6531E-01

7.158E-12

7.980E-12

1.041E-11

1.274E-11

1.452E-11

1.362E-11

1.242E-11

1.343E-11

1.623E-11

2.109E-11

2.667E-11

3.092E-11

3.904E-11

6.822E-11

1.618E-10

4.516E-10

1.574E-09

8.058E-10

1.737E-09

3.077E-09

5.756E-09

9.509E-09

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1.737E-09

3.077E-09

5.756E-09

9.509E-09

1.618E-10

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 2400.0 METERS

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E-01--1.50E-01	-1.059E-09	-6.319E-10	7.138E-10	2.399E-09	3.143E-09	3.719E-09	5.239E-09	9.830E-09	1.820E-08
1.00E-01--1.22E-01	2.24E-08	2.258E-08	2.317E-08	2.394E-08	2.486E-08	2.682E-08	3.126E-08	3.946E-08	5.167E-08
8.19E-02--1.00E-01	3.734E-08	3.829E-08	4.171E-08	4.623E-08	5.085E-08	5.759E-08	7.089E-08	9.545E-08	1.333E-07
6.36E-02--8.19E-02	1.809E-07	1.821E-07	1.877E-07	2.010E-07	2.262E-07	2.694E-07	3.954E-07	4.278E-07	5.500E-07
4.97E-02--6.36E-02	7.303E-07	7.336E-07	7.471E-07	7.833E-07	8.431E-07	9.427E-07	1.081E-06	1.260E-06	1.485E-06
4.07E-02--4.97E-02	1.589E-06	1.596E-06	1.626E-06	1.681E-06	1.763E-06	1.876E-06	2.029E-06	2.240E-06	2.536E-06
3.01E-02--4.07E-02	1.870E-06	1.871E-06	1.877E-06	1.892E-06	1.922E-06	1.976E-06	2.067E-06	2.209E-06	2.422E-06
2.46E-02--3.01E-02	2.820E-06	2.827E-06	2.860E-06	2.926E-06	3.038E-06	3.219E-06	3.499E-06	3.926E-06	4.563E-06
2.35E-02--2.46E-02	4.129E-06	4.156E-06	4.274E-06	4.499E-06	4.842E-06	5.338E-06	6.033E-06	7.005E-06	8.369E-06
1.83E-02--2.35E-02	6.346E-06	6.376E-06	6.506E-06	6.754E-06	7.132E-06	7.672E-06	8.412E-06	9.415E-06	1.076E-05
1.11E-02--1.83E-02	1.169E-05	1.173E-05	1.190E-05	1.222E-05	1.271E-05	1.341E-05	1.434E-05	1.554E-05	1.706E-05
5.00E-02--1.11E-02	3.312E-05	3.323E-05	3.373E-05	3.468E-05	3.605E-05	3.796E-05	4.047E-05	4.370E-05	4.773E-05
1.11E-01--5.00E-01	1.028E-04	1.031E-04	1.042E-04	1.062E-04	1.092E-04	1.132E-04	1.181E-04	1.241E-04	1.312E-04
3.35E-02--1.11E-01	1.064E-03	1.066E-03	1.073E-03	1.086E-03	1.105E-03	1.130E-03	1.160E-03	1.195E-03	1.234E-03
5.03E-02--3.35E-02	1.066E-03	1.067E-03	1.073E-03	1.084E-03	1.099E-03	1.118E-03	1.141E-03	1.168E-03	1.197E-03
1.01E-02--5.03E-02	7.189E-02	7.197E-02	7.235E-02	7.301E-02	7.397E-02	7.519E-02	7.667E-02	7.837E-02	8.025E-02
2.90E-02--1.01E-02	3.342E-01	3.346E-01	3.363E-01	3.393E-01	3.435E-01	3.490E-01	3.555E-01	3.631E-01	3.714E-01
1.07E-02--2.90E-02	1.030E-00	1.031E-00	1.036E-00	1.046E-00	1.059E-00	1.075E-00	1.095E-00	1.118E-00	1.144E-00
3.06E-02--1.07E-02	2.942E-00	2.945E-00	2.959E-00	2.985E-00	3.021E-00	3.068E-00	3.124E-00	3.189E-00	3.260E-00
1.12E-02--3.06E-02	8.266E-00	8.275E-00	8.315E-00	8.385E-00	8.485E-00	8.614E-00	8.768E-00	8.946E-00	9.141E-00
4.14E-02--1.12E-02	1.891E-01	1.893E-01	1.902E-01	1.917E-01	1.940E-01	1.969E-01	2.003E-01	2.043E-01	2.087E-01
0.0 --4.14E-02	2.884E-01	2.887E-01	2.900E-01	2.924E-01	2.956E-01	2.996E-01	3.044E-01	3.098E-01	3.158E-01

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E-01--1.50E-01	3.009E-08	4.570E-08	7.048E-08	1.219E-07	2.373E-07	4.851E-07	9.774E-07	1.987E-06	1.521E-06
1.00E-01--1.22E-01	6.749E-08	8.827E-08	1.221E-07	1.906E-07	3.364E-07	6.324E-07	1.187E-06	2.162E-06	2.177E-06
8.19E-02--1.00E-01	1.847E-07	2.561E-07	3.751E-07	6.141E-07	1.117E-06	2.141E-06	4.103E-06	7.706E-06	7.052E-06
6.36E-02--8.19E-02	7.140E-07	9.581E-07	1.372E-06	2.130E-06	3.519E-06	5.976E-06	1.007E-05	1.637E-05	2.662E-05
4.97E-02--6.36E-02	1.786E-06	2.225E-06	2.917E-06	4.038E-06	5.829E-06	8.587E-06	1.251E-05	1.767E-05	3.600E-05
4.07E-02--4.97E-02	2.963E-06	3.595E-06	4.536E-06	5.928E-06	7.930E-06	1.069E-05	1.416E-05	1.776E-05	5.201E-05
3.01E-02--4.07E-02	2.732E-06	3.168E-06	3.763E-06	4.544E-06	5.515E-06	6.639E-06	7.784E-06	8.677E-06	4.113E-05
2.46E-02--3.01E-02	5.503E-06	6.882E-06	8.906E-06	1.188E-05	1.623E-05	2.252E-05	3.127E-05	4.224E-05	1.631E-04
2.35E-02--2.46E-02	1.032E-05	1.320E-05	1.761E-05	2.460E-05	3.597E-05	5.480E-05	8.612E-05	1.371E-04	2.256E-04
1.83E-02--2.35E-02	1.254E-05	1.489E-05	1.795E-05	2.186E-05	2.671E-05	3.248E-05	3.873E-05	4.417E-05	1.877E-04
1.11E-02--1.83E-02	1.895E-05	2.126E-05	2.403E-05	2.724E-05	3.079E-05	3.445E-05	3.773E-05	3.996E-05	2.543E-04
5.00E-02--1.11E-02	5.270E-05	5.871E-05	6.582E-05	7.366E-05	8.283E-05	9.183E-05	9.979E-05	1.051E-04	6.998E-04
1.11E-01--5.00E-01	1.393E-04	1.483E-04	1.581E-04	1.682E-04	1.780E-04	1.869E-04	1.939E-04	1.981E-04	1.761E-03
3.35E-02--1.11E-01	1.277E-03	1.323E-03	1.369E-03	1.414E-03	1.456E-03	1.491E-03	1.517E-03	1.532E-03	1.596E-02
5.03E-02--3.35E-02	1.229E-03	1.263E-03	1.296E-03	1.327E-03	1.356E-03	1.380E-03	1.398E-03	1.408E-03	1.535E-02
1.01E-02--5.03E-02	8.227E-02	8.435E-02	8.643E-02	8.840E-02	9.018E-02	9.166E-02	9.275E-02	9.338E-02	1.027E-00
2.90E-02--1.01E-02	3.804E-01	3.895E-01	3.967E-01	4.074E-01	4.151E-01	4.216E-01	4.264E-01	4.292E-01	4.749E-00
1.07E-02--2.90E-02	1.171E-00	1.199E-00	1.227E-00	1.253E-00	1.277E-00	1.297E-00	1.311E-00	1.320E-00	1.462E-01
3.06E-02--1.07E-02	3.336E-00	3.414E-00	3.492E-00	3.565E-00	3.631E-00	3.686E-00	3.727E-00	3.750E-00	4.165E-01
1.12E-02--3.06E-02	9.350E-00	9.565E-00	9.778E-00	9.979E-00	1.016E-01	1.031E-01	1.042E-01	1.048E-01	1.167E-02
4.14E-02--1.12E-02	2.134E-01	2.182E-01	2.230E-01	2.275E-01	2.315E-01	2.349E-01	2.373E-01	2.387E-01	2.664E-02
0.0 --4.14E-02	3.223E-01	3.290E-01	3.356E-01	3.419E-01	3.474E-01	3.519E-01	3.552E-01	3.570E-01	4.027E-02



ENERGY	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
GROUP	MU=-1.0000	MU=-C.9894	MU=-C.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-C.2816	MU=-0.0950
1.22E 01	-1.50E 01	-1.855E-13	1.175E-12	2.847E-12	3.820E-12	4.887E-12	7.281E-12	1.317E-11	2.326E-11
1.00E 01	-1.22E 01	2.669E-11	2.875E-11	3.123E-11	3.339E-11	3.664E-11	4.394E-11	5.852E-11	8.160E-11
8.19E 00	-1.00E 01	8.621E-11	1.038E-10	1.058E-10	1.087E-10	1.451E-10	1.913E-10	2.827E-10	4.287E-10
6.36E 00	-8.19E 00	8.47CE-11	9.330E-10	1.027E-09	1.225E-09	1.339E-09	1.722E-09	2.988E-09	4.287E-09
4.97E 00	-6.36E 00	4.440E-09	4.531E-09	4.746E-09	5.143E-09	5.761E-09	6.613E-09	7.708E-09	9.100E-09
4.07E 00	-4.97E 00	9.742E-09	9.921E-09	1.025E-08	1.075E-08	1.144E-08	1.238E-08	1.368E-08	1.525E-08
3.01E 00	-3.01E 00	1.117E-08	1.129E-08	1.129E-08	1.147E-08	1.180E-08	1.234E-08	1.319E-08	1.446E-08
2.46E 00	-2.46E 00	1.653E-08	1.674E-08	1.717E-08	1.788E-08	1.903E-08	2.079E-08	2.346E-08	2.743E-08
2.35E 00	-2.46E 00	2.665E-08	2.541E-08	2.683E-08	2.899E-08	3.210E-08	3.645E-08	4.258E-08	5.119E-08
1.83E 00	-2.35E 00	3.953E-08	3.504E-08	4.264E-08	4.453E-08	4.807E-08	5.289E-08	5.940E-08	6.810E-08
1.11E 00	-1.83E 00	7.481E-08	7.292E-08	7.798E-08	8.115E-08	8.562E-08	9.150E-08	9.929E-08	1.100E-07
5.51E 00	-1.11E 00	2.189E-07	2.222E-07	2.285E-07	2.378E-07	2.506E-07	2.675E-07	2.891E-07	3.161E-07
1.11E 01	-5.50E-01	7.048E-07	7.125E-07	7.266E-07	7.471E-07	7.744E-07	8.087E-07	8.503E-07	9.072E-07
3.35E 02	-1.11E-01	7.467E-06	7.532E-06	7.656E-06	7.760E-06	7.934E-06	8.147E-06	8.396E-06	8.671E-06
5.83E 04	-3.35E-02	7.532E-06	7.584E-06	7.659E-06	7.765E-06	7.902E-06	8.068E-06	8.259E-06	8.471E-06
1.01E 04	-5.83E-04	5.109E-04	5.142E-04	5.190E-04	5.258E-04	5.346E-04	5.452E-04	5.575E-04	5.710E-04
2.90E 05	-1.01E-04	2.387E-03	2.399E-03	2.420E-03	2.451E-03	2.490E-03	2.536E-03	2.592E-03	2.653E-03
1.07E 05	-2.90E-05	7.370E-03	7.415E-03	7.481E-03	7.575E-03	7.696E-03	7.841E-03	8.008E-03	8.193E-03
3.06E 06	-1.07E-05	2.112E-02	2.125E-02	2.143E-02	2.170E-02	2.204E-02	2.244E-02	2.291E-02	2.343E-02
1.12E 05	-3.06E-06	5.957E-02	5.985E-02	6.037E-02	6.110E-02	6.204E-02	6.316E-02	6.446E-02	6.589E-02
1.12E 05	-3.06E-06	1.366E-01	1.372E-01	1.384E-01	1.400E-01	1.422E-01	1.447E-01	1.476E-01	1.508E-01
4.14E 07	-1.12E-06	2.089E-01	2.099E-01	2.116E-01	2.139E-01	2.169E-01	2.204E-01	2.244E-01	2.288E-01
0.0	-4.14E-07								
ENERGY	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR
GROUP	MU=-0.0950	MU=C.2816	MU=-0.4580	MU=-0.6179	MU=-0.7550	MU=-0.8656	MU=-0.9446	MU=C.9894	FLUX
1.22E 01	-1.50E 01	3.776E-11	9.203E-11	1.619E-10	3.116E-10	6.138E-10	1.161E-09	2.014E-09	1.830E-09
1.00E 01	-1.22E 01	1.133E-10	2.233E-10	3.877E-10	7.136E-10	1.359E-09	2.499E-09	4.178E-09	4.295E-09
8.19E 00	-1.00E 01	9.27CE-10	1.446E-09	2.530E-09	4.847E-09	9.526E-09	1.813E-08	3.191E-08	2.914E-08

12.20 TO 15.00 MEV NEUTRON SOURCE

4 PI R\*\*2 FLUENCE AT 4800.G METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
1.22E 01--1.50E 01	-3.799E-15	-2.363E-17	1.239E-15	2.784E-15	3.884E-15	5.272E-15	6.251E-15	1.495E-14	2.604E-14
1.00E 01--1.22E 01	2.386E-14	2.500E-14	2.902E-14	3.385E-14	3.798E-14	4.358E-14	5.591E-14	8.102E-14	1.213E-13
8.19E 00--1.00E 01	8.092E-14	9.620E-14	1.502E-13	2.160E-13	2.728E-13	3.491E-13	5.140E-13	8.469E-13	1.386E-12
6.35E 00--8.19E 00	2.766E-12	2.755E-12	2.974E-12	3.430E-12	4.238E-12	5.580E-12	7.662E-12	1.066E-11	1.467E-11
4.97E 00--6.35E 00	1.937E-11	1.949E-11	2.008E-11	2.300E-11	2.386E-11	2.767E-11	3.297E-11	3.974E-11	4.791E-11
3.01E 00--4.97E 00	4.290E-11	4.317E-11	4.432E-11	4.651E-11	4.987E-11	5.465E-11	6.115E-11	6.973E-11	8.078E-11
2.46E 00--3.01E 00	6.939E-11	5.026E-11	5.077E-11	5.183E-11	5.364E-11	5.647E-11	6.060E-11	6.628E-11	7.382E-11
2.55E 00--2.46E 00	1.001E-10	6.972E-11	7.120E-11	7.416E-11	7.910E-11	8.688E-11	9.864E-11	1.157E-10	1.393E-10
1.83E 00--2.55E 00	1.729E-10	1.011E-10	1.053E-10	1.134E-10	1.260E-10	1.447E-10	1.718E-10	2.100E-10	2.614E-10
1.11E 00--1.83E 00	3.402E-10	1.742E-10	1.798E-10	1.905E-10	2.069E-10	2.303E-10	2.620E-10	3.032E-10	3.549E-10
5.50E 01--1.11E 00	9.846E-10	9.895E-10	1.012E-09	1.055E-09	1.118E-09	1.175E-09	1.257E-09	1.375E-09	1.613E-09
1.11E 01--5.50E 01	3.296E-09	3.308E-09	3.361E-09	3.458E-09	3.598E-09	3.781E-09	4.005E-09	4.269E-09	4.569E-09
3.35E 02--1.11E 01	3.591E-08	3.600E-08	3.635E-08	3.698E-08	3.788E-08	3.902E-08	4.040E-08	4.198E-08	4.371E-08
5.83E 02--3.35E 02	3.657E-08	3.664E-08	3.691E-08	3.741E-08	3.811E-08	3.901E-08	4.007E-08	4.129E-08	4.257E-08
1.01E 03--5.83E 02	2.477E-06	2.481E-06	2.499E-06	2.531E-06	2.577E-06	2.634E-06	2.703E-06	2.781E-06	2.863E-06
2.90E 03--1.01E 03	1.156E-05	1.157E-05	1.165E-05	1.180E-05	1.200E-05	1.226E-05	1.257E-05	1.292E-05	1.328E-05
1.07E 05--2.90E 05	3.568E-05	3.573E-05	3.598E-05	3.642E-05	3.705E-05	3.784E-05	3.878E-05	3.985E-05	4.097E-05
3.06E 05--1.07E 05	1.021E-04	1.023E-04	1.030E-04	1.042E-04	1.060E-04	1.082E-04	1.109E-04	1.139E-04	1.170E-04
1.12E 06--3.06E 06	2.877E-04	2.881E-04	2.901E-04	2.935E-04	2.984E-04	3.045E-04	3.119E-04	3.202E-04	3.288E-04
4.14E 07--1.12E 06	6.595E-04	6.605E-04	6.649E-04	6.726E-04	6.836E-04	6.975E-04	7.140E-04	7.328E-04	7.522E-04
C.0 ---4.14E-07	1.011E-03	1.013E-03	1.019E-03	1.030E-03	1.046E-03	1.065E-03	1.088E-03	1.114E-03	1.141E-03
ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
1.22E 01--1.50E 01	4.776E-14	6.505E-14	1.048E-13	1.856E-13	3.540E-13	6.823E-13	1.244E-12	2.003E-12	1.991E-12
1.00E 01--1.22E 01	1.776E-13	2.568E-13	4.010E-13	6.941E-13	1.307E-12	2.500E-12	4.533E-12	7.240E-12	7.517E-12
8.19E 00--1.00E 01	2.141E-12	3.261E-12	5.297E-12	9.607E-12	1.878E-11	3.703E-11	6.945E-11	1.166E-10	1.088E-10
6.35E 00--8.19E 00	2.024E-11	2.899E-11	4.437E-11	7.277E-11	1.236E-10	2.100E-10	3.404E-10	4.953E-10	6.629E-10
4.97E 00--6.35E 00	5.843E-11	7.377E-11	9.783E-11	1.361E-10	1.953E-10	2.812E-10	3.918E-10	5.004E-10	1.152E-09
3.01E 00--4.97E 00	9.578E-11	1.173E-10	1.485E-10	1.933E-10	2.549E-10	3.342E-10	4.229E-10	4.966E-10	1.622E-09
2.46E 00--3.01E 00	8.399E-11	9.770E-11	1.157E-10	1.385E-10	1.655E-10	1.950E-10	2.225E-10	2.415E-10	1.223E-09
1.83E 00--2.46E 00	1.720E-10	2.187E-10	2.862E-10	3.837E-10	5.225E-10	7.136E-10	9.531E-10	1.188E-09	3.163E-09
1.01E 03--1.83E 02	3.315E-10	4.343E-10	5.949E-10	8.576E-10	1.299E-09	2.046E-09	3.282E-09	5.086E-09	7.819E-09
2.90E 03--1.01E 03	4.205E-10	5.051E-10	6.129E-10	7.474E-10	9.083E-10	1.089E-09	1.268E-09	1.401E-09	6.173E-09
1.11E 05--2.90E 05	6.305E-10	7.127E-10	8.088E-10	9.176E-10	1.035E-09	1.151E-09	1.251E-09	1.316E-09	8.337E-09
5.50E 05--1.11E 05	1.814E-09	2.043E-09	2.308E-09	2.605E-09	2.920E-09	3.231E-09	3.497E-09	3.688E-09	2.382E-08
1.11E 01--5.50E 01	4.906E-09	5.272E-09	5.661E-09	6.055E-09	6.433E-09	6.770E-09	7.032E-09	7.188E-09	6.157E-08
3.35E 02--1.11E 01	4.561E-08	4.575E-08	4.593E-08	4.626E-08	4.672E-08	4.735E-08	4.812E-08	4.904E-08	5.012E-08
5.83E 02--3.35E 02	4.402E-08	4.548E-08	4.691E-08	4.826E-08	4.947E-08	5.047E-08	5.121E-08	5.164E-08	5.177E-07
1.01E 03--5.83E 02	2.956E-06	3.048E-06	3.139E-06	3.225E-06	3.301E-06	3.364E-06	3.411E-06	3.437E-06	3.678E-05
2.90E 03--1.01E 03	1.370E-05	1.411E-05	1.451E-05	1.489E-05	1.523E-05	1.551E-05	1.571E-05	1.583E-05	1.704E-04
1.12E 06--3.06E 06	4.225E-05	4.351E-05	4.475E-05	4.591E-05	4.694E-05	4.780E-05	4.847E-05	4.879E-05	5.258E-04
4.14E 07--1.12E 06	1.206E-04	1.242E-04	1.277E-04	1.309E-04	1.338E-04	1.362E-04	1.386E-04	1.390E-04	1.501E-03
0.0 ---4.14E-07	3.388E-04	3.486E-04	3.582E-04	3.672E-04	3.751E-04	3.818E-04	3.866E-04	3.894E-04	4.217E-03
	7.747E-04	7.968E-04	8.183E-04	8.385E-04	8.546E-04	8.713E-04	8.821E-04	8.836E-04	9.643E-03
	1.172E-03	1.203E-03	1.233E-03	1.261E-03	1.286E-03	1.308E-03	1.321E-03	1.329E-03	1.460E-02

## 12.20 TO 15.00 MEV NEUTRON SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

4  $\pi$  R\*\*2 FLUENCE AT 2400.C METERS

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.9894	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
8.00E 00--1.00E 01	-5.280E-07	-4.305E-07	-1.185E-07	-1.253E-07	3.297E-07	1.142E-07	-1.259E-07	-2.016E-07	1.429E-08
8.50E 00--1.00E 01	-2.940E-06	-2.410E-06	-7.111E-07	-6.227E-07	1.701E-06	4.843E-07	-8.295E-07	-1.229E-06	-4.279E-08
5.00E 00--6.50E 00	-7.892E-06	-6.356E-06	-1.421E-06	2.515E-06	5.555E-06	1.975E-06	-1.690E-06	-2.535E-06	1.058E-06
4.00E 00--5.00E 00	-1.296E-05	-1.059E-05	-2.984E-06	3.031E-06	7.396E-06	1.576E-06	-4.077E-06	-5.172E-06	7.437E-07
3.00E 00--4.00E 00	-1.146E-05	-9.271E-06	-2.282E-06	3.187E-06	6.751E-06	1.096E-06	-3.740E-06	-3.885E-06	5.905E-07
2.50E 00--3.00E 00	-5.044E-06	-3.949E-06	-5.255E-07	1.977E-06	2.959E-06	-4.545E-08	-1.858E-06	-6.396E-07	2.315E-06
2.00E 00--2.50E 00	5.347E-06	4.716E-06	2.515E-06	-4.861E-07	-1.834E-06	-9.075E-08	1.272E-06	4.506E-06	4.474E-06
1.66E 00--2.00E 00	1.692E-05	1.435E-05	4.590E-06	-4.162E-06	-6.641E-06	-1.571E-06	4.732E-06	1.045E-05	2.308E-06
1.33E 00--1.66E 00	2.395E-05	2.006E-05	5.667E-06	-6.636E-06	-7.987E-06	-6.507E-07	7.948E-06	1.328E-05	-1.369E-06
1.00E 00--1.33E 00	1.457E-05	1.187E-05	2.325E-06	-4.877E-06	-4.467E-06	1.203E-06	8.212E-06	4.142E-06	-4.310E-06
8.00E 01--1.00E 01	-1.449E-05	-1.226E-05	-4.492E-06	3.302E-06	9.599E-06	5.240E-06	-3.873E-06	-7.041E-06	6.622E-06
6.00E 01--8.00E 01	-3.280E-05	-2.651E-05	-6.059E-06	1.097E-05	1.795E-05	2.305E-06	-0.315E-06	1.122E-05	7.740E-05
4.00E 01--6.00E 01	1.021E-04	9.972E-05	9.201E-05	8.629E-05	9.601E-05	1.341E-04	2.100E-04	3.210E-04	4.505E-04
3.00E 01--4.00E 01	9.747E-05	1.044E-04	1.375E-04	2.088E-04	3.215E-04	4.621E-04	5.974E-04	6.923E-04	7.274E-04
2.00E 01--3.00E 01	1.261E-03	1.260E-03	1.260E-03	1.247E-03	1.215E-03	1.164E-03	1.107E-03	1.064E-03	1.051E-03
1.00E 01--2.00E 01	2.866E-03	2.873E-03	2.901E-03	2.952E-03	3.023E-03	3.114E-03	3.224E-03	3.355E-03	3.566E-03
5.00E 02--1.00E 01	8.806E-03	8.894E-03	8.956E-03	9.068E-03	9.230E-03	9.444E-03	9.707E-03	1.002E-02	1.038E-02
2.00E 02--5.00E 02	2.704E-03	2.706E-03	2.714E-03	2.729E-03	2.750E-03	2.777E-03	2.810E-03	2.848E-03	2.891E-03

ENERGY GROUP (MEV)	ANGLE 10 MU= 0.0950	ANGLE 11 MU= 0.2816	ANGLE 12 MU= 0.4580	ANGLE 13 MU= 0.6179	ANGLE 14 MU= 0.7550	ANGLE 15 MU= 0.8656	ANGLE 16 MU= 0.9446	ANGLE 17 MU= 0.9894	SCALAR FLUX
8.00E 00--1.00E 01	2.723E-07	6.045E-07	4.168E-07	-4.541E-07	-1.022E-07	4.826E-06	4.153E-05	4.624E-04	9.895E-05
8.50E 00--1.00E 01	1.335E-06	2.973E-06	8.418E-07	-3.709E-06	-2.316E-06	1.894E-05	1.665E-04	1.557E-03	3.419E-04
5.00E 00--6.50E 00	7.151E-06	1.072E-05	6.047E-06	-6.287E-06	1.452E-06	7.949E-05	4.478E-04	2.558E-03	6.842E-04
4.00E 00--5.00E 00	6.817E-06	1.228E-05	-1.404E-06	-1.789E-05	3.681E-07	1.139E-04	5.498E-04	2.064E-03	6.347E-04
3.00E 00--4.00E 00	9.026E-06	1.041E-05	-4.508E-06	-1.044E-05	2.539E-05	1.959E-04	6.587E-04	1.714E-03	6.931E-04
2.50E 00--3.00E 00	5.926E-06	2.097E-06	-4.284E-06	6.906E-06	7.765E-05	2.901E-04	7.422E-04	1.595E-03	8.107E-04
2.00E 00--2.50E 00	-1.031E-06	-5.671E-06	1.097E-06	4.102E-05	1.545E-04	3.857E-04	7.737E-04	1.326E-03	9.233E-04
1.66E 00--2.00E 00	-9.400E-06	-9.836E-06	1.548E-05	9.861E-05	2.222E-04	4.785E-04	7.645E-04	1.081E-03	1.048E-03
1.33E 00--1.66E 00	-1.405E-05	-2.488E-07	5.055E-05	1.823E-04	3.634E-04	5.587E-04	7.246E-04	8.468E-04	1.271E-03
1.00E 00--1.33E 00	2.843E-07	4.086E-05	1.464E-04	3.080E-04	4.832E-04	6.091E-04	6.443E-04	6.154E-04	1.598E-03
8.00E 01--1.00E 01	5.671E-05	1.520E-04	2.849E-04	4.293E-04	5.455E-04	5.980E-04	5.801E-04	5.302E-04	2.057E-03
6.00E 01--8.00E 01	1.927E-04	3.270E-04	4.428E-04	5.136E-04	5.200E-04	5.543E-04	5.759E-04	6.042E-04	2.756E-03
4.00E 01--6.00E 01	5.719E-04	6.590E-04	7.013E-04	7.125E-04	7.258E-04	7.735E-04	8.578E-04	9.386E-04	5.812E-03
3.00E 01--4.00E 01	7.173E-04	7.017E-04	7.214E-04	7.880E-04	8.735E-04	9.320E-04	9.387E-04	9.152E-04	8.109E-03
2.00E 01--3.00E 01	1.072E-03	1.116E-03	1.169E-03	1.217E-03	1.265E-03	1.317E-03	1.372E-03	1.414E-03	1.465E-02
1.00E 01--2.00E 01	3.677E-03	3.864E-03	4.064E-03	4.268E-03	4.464E-03	4.639E-03	4.776E-03	4.858E-03	4.624E-02
5.00E 02--1.00E 01	1.078E-02	1.121E-02	1.166E-02	1.211E-02	1.253E-02	1.289E-02	1.316E-02	1.333E-02	1.351E-01
2.00E 02--5.00E 02	2.938E-03	2.986E-03	3.034E-03	3.081E-03	3.123E-03	3.158E-03	3.184E-03	3.199E-03	3.678E-02

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 360C.0 METERS

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1 MU=-1.0000	ANGLE 2 MU=-0.5694	ANGLE 3 MU=-0.9446	ANGLE 4 MU=-0.8656	ANGLE 5 MU=-0.7550	ANGLE 6 MU=-0.6179	ANGLE 7 MU=-0.4580	ANGLE 8 MU=-0.2816	ANGLE 9 MU=-0.0950
8.00E-00--1.00E-01	-4.141E-08	-3.414E-08	-1.042E-08	9.111E-09	2.268E-08	4.639E-09	-1.457E-08	-1.983E-08	-1.344E-09
6.00E-00--8.00E-01	-1.993E-07	-1.643E-07	4.982E-07	4.491E-08	1.081E-07	1.867E-09	-7.224E-08	-9.496E-08	-3.275E-09
5.00E-00--6.00E-01	-5.012E-07	-4.116E-07	-1.192E-07	1.230E-07	2.770E-07	4.431E-08	-1.830E-07	-2.280E-07	1.772E-08
4.00E-00--5.00E-01	-7.232E-07	-5.932E-07	-1.697E-07	1.869E-07	3.854E-07	3.905E-08	-2.800E-07	-3.192E-07	5.265E-08
3.00E-00--4.00E-01	-6.059E-07	-4.932E-07	-1.283E-07	1.670E-07	3.118E-07	2.370E-09	-2.500E-07	-2.322E-07	4.414E-08
2.00E-00--3.00E-01	-2.040E-07	-1.614E-07	-2.236E-08	7.648E-07	7.871E-08	-3.919E-08	-1.079E-07	-2.188E-08	1.222E-07
1.50E-00--2.00E-01	3.763E-07	3.221E-07	1.144E-07	-9.285E-08	-1.786E-07	-8.398E-08	6.615E-08	2.753E-07	1.254E-07
1.00E-00--1.50E-01	9.683E-07	8.107E-07	2.325E-07	-2.903E-07	-4.192E-07	-3.081E-08	5.044E-07	5.663E-07	-3.434E-08
8.00E-01--1.00E-00	1.241E-06	1.027E-06	2.574E-07	-4.049E-07	-5.059E-07	-2.620E-08	4.508E-07	6.173E-07	-2.947E-07
6.00E-01--8.00E-01	6.109E-07	4.867E-07	6.328E-08	-2.472E-07	-1.957E-07	8.713E-08	3.499E-07	3.762E-08	-3.775E-07
4.00E-01--6.00E-01	-9.214E-07	-7.767E-07	-2.775E-07	2.195E-07	5.324E-07	1.664E-07	-3.589E-07	-5.088E-07	4.291E-07
3.00E-01--4.00E-01	-1.685E-06	-1.364E-06	-3.178E-07	5.600E-07	7.469E-07	1.532E-08	-3.976E-07	7.438E-07	4.554E-06
2.00E-01--3.00E-01	5.469E-06	5.321E-06	4.841E-06	4.503E-06	5.098E-06	7.298E-06	1.147E-05	1.724E-05	2.359E-05
1.00E-01--2.00E-01	4.964E-06	5.399E-06	7.390E-06	1.140E-05	1.737E-05	2.443E-05	3.082E-05	3.485E-05	3.577E-05
5.00E-02--1.00E-01	6.484E-05	6.481E-05	6.444E-05	6.333E-05	6.112E-05	5.797E-05	5.464E-05	5.214E-05	5.125E-05
2.00E-02--5.00E-02	1.408E-04	1.411E-04	1.425E-04	1.449E-04	1.483E-04	1.525E-04	1.576E-04	1.635E-04	1.702E-04
1.00E-02--2.00E-02	4.304E-04	4.311E-04	4.339E-04	4.389E-04	4.462E-04	4.557E-04	4.674E-04	4.812E-04	4.968E-04
5.00E-03--1.00E-02	1.295E-04	1.296E-04	1.300E-04	1.306E-04	1.315E-04	1.327E-04	1.342E-04	1.358E-04	1.377E-04

ENERGY GROUP (MEV)	ANGLE 10 MU=0.0950	ANGLE 11 MU=0.2816	ANGLE 12 MU=0.4580	ANGLE 13 MU=0.6179	ANGLE 14 MU=0.7550	ANGLE 15 MU=0.8656	ANGLE 16 MU=0.9446	ANGLE 17 MU=0.9894	SCALAR FLUX
8.00E-00--1.00E-01	2.033E-08	4.323E-08	-2.524E-09	-9.264E-08	-1.033E-07	1.736E-07	2.325E-06	3.326E-05	6.567E-06
6.00E-00--8.00E-01	1.015E-07	2.028E-07	-4.003E-08	-4.713E-07	-4.911E-07	8.362E-07	9.087E-06	9.247E-05	1.921E-05
5.00E-00--6.00E-01	2.857E-07	5.107E-07	-1.585E-07	-1.143E-06	-7.631E-07	3.196E-06	2.294E-05	1.305E-04	3.202E-05
4.00E-00--5.00E-01	4.217E-07	6.446E-07	-4.567E-07	-1.663E-06	-3.577E-07	6.192E-06	3.114E-05	1.033E-04	3.209E-05
3.00E-00--4.00E-01	4.893E-07	4.021E-07	-6.833E-07	-1.107E-06	1.221E-06	1.148E-05	3.664E-05	8.370E-05	3.544E-05
2.00E-00--3.00E-01	2.192E-07	-1.733E-07	-5.561E-07	2.397E-07	4.584E-06	1.640E-05	3.851E-05	6.978E-05	4.010E-05
1.00E-00--2.00E-01	-2.822E-07	-6.058E-07	9.832E-08	2.326E-06	9.013E-06	2.080E-05	3.789E-05	5.663E-05	4.556E-05
5.00E-02--1.00E-01	-7.915E-07	-7.555E-07	9.558E-07	5.962E-06	1.413E-05	2.459E-05	3.543E-05	4.413E-05	5.254E-05
2.00E-02--5.00E-02	-9.970E-07	-5.802E-08	3.125E-06	1.051E-05	1.935E-05	2.732E-05	3.185E-05	3.303E-05	6.198E-05
1.00E-02--1.33E-01	1.115E-07	2.475E-07	8.457E-06	1.651E-05	2.426E-05	2.828E-05	2.724E-05	2.363E-05	7.792E-05
8.00E-01--1.00E-00	3.452E-06	8.616E-06	1.521E-05	2.161E-05	2.587E-05	2.672E-05	2.451E-05	2.154E-05	9.997E-05
6.00E-01--8.00E-01	1.064E-05	1.720E-05	2.216E-05	2.441E-05	2.455E-05	2.434E-05	2.509E-05	2.641E-05	1.334E-04
4.00E-01--6.00E-01	2.908E-05	3.253E-05	3.367E-05	3.346E-05	3.359E-05	3.549E-05	3.902E-05	4.232E-05	2.856E-04
3.00E-01--4.00E-01	3.460E-05	3.341E-05	3.416E-05	3.713E-05	4.073E-05	4.278E-05	4.240E-05	4.089E-05	3.943E-04
2.00E-01--3.00E-01	5.199E-05	5.376E-05	5.574E-05	5.749E-05	5.915E-05	6.110E-05	6.327E-05	6.498E-05	7.109E-04
1.00E-01--2.00E-01	1.777E-04	1.857E-04	1.942E-04	2.026E-04	2.105E-04	2.174E-04	2.228E-04	2.260E-04	2.260E-04
5.00E-02--1.00E-01	5.140E-04	5.323E-04	5.510E-04	5.694E-04	5.863E-04	6.008E-04	6.117E-04	6.180E-04	6.430E-03
2.00E-02--5.00E-02	1.397E-04	1.417E-04	1.437E-04	1.457E-04	1.474E-04	1.489E-04	1.499E-04	1.505E-04	1.748E-03

## 12.20 TO 15.00 MEV NEUTRON SOURCE

## 4 PI R\*\*2 FLUENCE AT 4800.C METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00--1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
8.00E 00--1.00E 01	-1.839E-09	-1.521E-09	-4.418E-10	5.789E-10	9.525E-10	1.526E-10	-9.681E-10	-1.273E-09	6.619E-11
6.50E 00--8.00E 00	-8.179E-09	-6.756E-09	-1.840E-09	2.598E-09	4.195E-09	6.051E-10	-4.305E-09	-5.467E-09	5.243E-10
5.00E 00--6.50E 00	-1.898E-08	-1.564E-08	-4.376E-09	6.163E-09	9.613E-09	1.112E-09	-1.004E-08	-1.200E-08	2.053E-09
4.00E 00--5.00E 00	-2.612E-08	-2.145E-08	-5.771E-09	8.705E-09	1.289E-08	7.871E-10	-1.407E-08	-1.519E-08	1.173E-09
3.00E 00--4.00E 00	-2.092E-08	-1.702E-08	-4.087E-09	7.430E-09	9.740E-09	-7.740E-10	-1.182E-08	-9.848E-09	5.012E-09
2.50E 00--3.00E 00	-4.944E-09	-3.750E-09	-4.625E-11	2.488E-09	1.318E-09	-2.608E-09	-3.846E-09	5.306E-10	8.870E-09
2.00E 00--2.50E 00	1.803E-08	1.525E-08	4.909E-09	-5.387E-09	-9.244E-09	-3.448E-09	6.905E-09	1.633E-08	4.493E-09
1.66E 00--2.00E 00	4.093E-08	3.404E-08	9.052E-09	-1.376E-08	-1.884E-08	-2.428E-09	1.857E-08	2.893E-08	-6.173E-09
1.33E 00--1.66E 00	5.030E-08	4.126E-08	9.414E-09	-1.808E-08	-2.135E-08	8.005E-10	2.529E-08	2.488E-08	-1.772E-08
1.00E 00--1.33E 00	2.182E-08	1.707E-08	1.346E-09	-9.740E-09	-6.335E-09	6.301E-09	-1.518E-08	-2.547E-08	-2.032E-08
8.00E 01--1.00E 00	-4.269E-08	-3.585E-08	-1.196E-08	1.299E-08	2.518E-08	6.380E-09	-2.136E-08	-2.577E-08	3.295E-08
6.00E 01--8.00E 01	-7.187E-08	-5.802E-08	-1.232E-08	2.785E-08	3.213E-08	-1.700E-09	-1.675E-08	5.319E-08	2.639E-07
4.00E 01--6.00E 01	2.646E-07	2.575E-07	2.354E-07	2.239E-07	2.645E-07	3.932E-07	6.265E-07	9.373E-07	1.263E-06
3.00E 01--4.00E 01	2.052E-07	2.299E-07	3.415E-07	5.604E-07	8.822E-07	1.259E-06	1.596E-06	1.622E-06	1.839E-06
2.00E 01--3.00E 01	3.052E-06	3.053E-06	3.053E-06	3.030E-06	2.962E-06	2.852E-06	2.728E-06	2.635E-06	2.609E-06
1.00E 01--2.00E 01	6.206E-06	6.233E-06	6.343E-06	6.537E-06	6.805E-06	7.135E-06	7.506E-06	7.905E-06	8.319E-06
5.00E 02--1.00E 01	1.834E-05	1.840E-05	1.863E-05	1.904E-05	1.962E-05	2.034E-05	2.118E-05	2.212E-05	2.310E-05
2.00E 02--5.00E 02	5.810E-06	5.816E-06	5.844E-06	5.892E-06	5.959E-06	6.043E-06	6.140E-06	6.248E-06	6.356E-06

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00--1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
8.00E 00--1.00E 01	1.713E-09	3.216E-09	-8.722E-10	-8.320E-09	-1.005E-08	1.095E-08	1.543E-07	2.288E-06	4.448E-07
6.50E 00--8.00E 00	7.656E-09	1.343E-08	-5.418E-09	-3.608E-08	-3.792E-08	5.744E-08	5.784E-07	5.309E-06	1.115E-06
5.00E 00--6.50E 00	1.869E-08	2.840E-08	-1.777E-08	-1.997E-08	-3.756E-08	1.908E-07	1.296E-06	6.446E-06	1.622E-06
4.00E 00--5.00E 00	3.097E-08	3.204E-08	-3.482E-08	-1.009E-07	-1.593E-08	3.807E-07	1.751E-06	5.017E-06	1.677E-06
3.00E 00--4.00E 00	2.600E-08	1.175E-08	-4.074E-08	-5.826E-08	8.710E-08	6.702E-07	1.962E-06	3.994E-06	1.853E-06
2.50E 00--3.00E 00	6.862E-09	-1.544E-08	-3.138E-08	2.455E-08	2.821E-07	9.116E-07	1.978E-06	3.240E-06	2.079E-06
2.00E 00--2.50E 00	-2.093E-08	-3.677E-08	8.122E-10	1.588E-07	5.155E-07	1.109E-06	1.883E-06	2.608E-06	2.354E-06
1.66E 00--2.00E 00	4.723E-08	-3.900E-08	6.682E-08	3.503E-07	7.732E-07	1.269E-06	1.718E-06	2.018E-06	2.709E-06
1.33E 00--1.66E 00	-5.300E-08	1.500E-07	1.989E-07	5.835E-07	1.023E-06	1.372E-06	1.519E-06	1.504E-06	3.188E-06
1.00E 00--1.33E 00	1.053E-08	1.609E-07	4.718E-07	8.792E-07	1.239E-06	1.300E-06	1.174E-06	1.039E-06	5.131E-06
8.00E 01--1.00E 00	2.046E-07	4.784E-07	8.105E-07	1.112E-06	1.291E-06	1.189E-06	1.226E-06	1.292E-06	6.842E-06
6.00E 01--8.00E 01	5.811E-07	9.097E-07	1.141E-06	1.227E-06	1.210E-06	1.189E-06	1.226E-06	1.292E-06	6.842E-06
4.00E 01--6.00E 01	1.530E-06	1.686E-06	1.725E-06	1.702E-06	1.704E-06	1.794E-06	1.959E-06	2.111E-06	1.481E-05
3.00E 01--4.00E 01	1.772E-06	1.710E-06	1.747E-06	1.892E-06	2.060E-06	2.148E-06	2.119E-06	2.042E-06	2.012E-05
2.00E 01--3.00E 01	2.656E-06	2.748E-06	2.844E-06	2.925E-06	3.000E-06	3.090E-06	3.191E-06	3.272E-06	3.564E-05
1.00E 01--2.00E 01	8.750E-06	9.191E-06	9.633E-06	1.006E-05	1.045E-05	1.079E-05	1.105E-05	1.120E-05	1.080E-04
5.00E 02--1.00E 01	2.414E-05	2.518E-05	2.621E-05	2.718E-05	2.806E-05	2.880E-05	2.934E-05	2.966E-05	2.984E-04
2.00E 02--5.00E 02	6.481E-06	6.601E-06	6.715E-06	6.822E-06	6.915E-06	6.992E-06	7.048E-06	7.080E-06	8.081E-05

## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*\*2 HENDERSON DOSE (NEUTRONS)  
1CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON

COSINE	1800.0	2100.0	2400.0	RANGE (METERS)		3000.0	3300.0	3600.0
				2700.0	2700.0			
-1.00000E-00	1.777E-12	5.522E-13	1.655E-13	4.833E-14	1.383E-14	3.891E-15	3.891E-15	1.081E-15
-9.89401E-01	1.782E-12	5.539E-13	1.660E-13	4.847E-14	1.387E-14	3.903E-15	3.903E-15	1.085E-15
-9.44575E-01	1.806E-12	5.611E-13	1.682E-13	4.911E-14	1.405E-14	3.955E-15	3.955E-15	1.099E-15
-8.65631E-01	1.850E-12	5.749E-13	1.724E-13	5.032E-14	1.440E-14	4.053E-15	4.053E-15	1.126E-15
-7.55044E-01	1.917E-12	5.958E-13	1.786E-13	5.216E-14	1.492E-14	4.201E-15	4.201E-15	1.168E-15
-6.17876E-01	2.012E-12	6.255E-13	1.876E-13	5.477E-14	1.567E-14	4.411E-15	4.411E-15	1.226E-15
-4.58017E-01	2.142E-12	6.657E-13	1.996E-13	5.826E-14	1.667E-14	4.691E-15	4.691E-15	1.304E-15
-2.81605E-01	2.315E-12	7.189E-13	2.154E-13	6.286E-14	1.797E-14	5.059E-15	5.059E-15	1.406E-15
-9.50125E-02	2.539E-12	7.875E-13	2.357E-13	6.875E-14	1.965E-14	5.529E-15	5.529E-15	1.536E-15
-9.0125E-02	2.827E-12	8.755E-13	2.618E-13	7.630E-14	2.180E-14	6.130E-15	6.130E-15	1.702E-15
-2.81605E-01	3.200E-12	9.894E-13	2.955E-13	8.604E-14	2.456E-14	6.905E-15	6.905E-15	1.917E-15
-4.58017E-01	3.696E-12	1.140E-12	3.400E-13	9.886E-14	2.820E-14	7.921E-15	7.921E-15	2.198E-15
-3.17876E-01	4.383E-12	1.347E-12	4.006E-13	1.162E-13	3.310E-14	9.284E-15	9.284E-15	2.573E-15
-7.55044E-01	5.364E-12	1.638E-12	4.847E-13	1.401E-13	3.978E-14	1.113E-14	1.113E-14	3.078E-15
-8.65631E-01	6.803E-12	2.055E-12	6.030E-13	1.732E-13	4.893E-14	1.364E-14	1.364E-14	3.760E-15
-9.44575E-01	8.937E-12	2.650E-12	7.669E-13	2.180E-13	6.107E-14	1.691E-14	1.691E-14	4.636E-15
-9.89401E-01	1.231E-11	3.505E-12	9.860E-13	2.745E-13	7.572E-14	2.071E-14	2.071E-14	5.624E-15
TOTAL	4.241E-11	1.298E-11	3.850E-12	1.115E-12	3.170E-13	8.882E-14	8.882E-14	2.459E-14

COSINE	3800.0	4000.0	RANGE (METERS)		4600.0	4800.0
			4200.0	4400.0		
-1.00000E-00	4.578E-16	1.930E-16	8.105E-17	3.385E-17	1.385E-17	4.949E-18
-9.89401E-01	4.592E-16	1.936E-16	8.130E-17	3.395E-17	1.390E-17	4.971E-18
-9.44575E-01	4.653E-16	1.962E-16	8.239E-17	3.441E-17	1.410E-17	5.068E-18
-8.65631E-01	4.748E-16	2.010E-16	8.444E-17	3.528E-17	1.447E-17	5.252E-18
-7.55044E-01	4.944E-16	2.084E-16	8.755E-17	3.659E-17	1.504E-17	5.530E-18
-6.17876E-01	5.190E-16	2.188E-16	9.192E-17	3.843E-17	1.584E-17	5.918E-18
-4.58017E-01	5.520E-16	2.327E-16	9.775E-17	4.088E-17	1.688E-17	6.427E-18
-2.81605E-01	5.950E-16	2.509E-16	1.054E-16	4.407E-17	1.824E-17	7.067E-18
-9.50125E-02	6.501E-16	2.740E-16	1.151E-16	4.815E-17	1.955E-17	7.843E-18
-9.0125E-02	7.204E-16	3.037E-16	1.275E-16	5.335E-17	2.214E-17	8.798E-18
-2.81605E-01	8.110E-16	3.418E-16	1.435E-16	6.004E-17	2.494E-17	9.998E-18
-4.58017E-01	9.295E-16	3.916E-16	1.644E-16	6.878E-17	2.859E-17	1.154E-17
-6.17876E-01	1.068E-15	4.586E-16	1.922E-16	8.038E-17	3.343E-17	1.358E-17
-7.55044E-01	1.300E-15	5.470E-16	2.294E-16	9.586E-17	3.987E-17	1.626E-17
-8.65631E-01	1.585E-15	6.657E-16	2.787E-16	1.163E-16	4.835E-17	1.978E-17
-9.44575E-01	1.948E-15	8.159E-16	3.407E-16	1.419E-16	5.866E-17	2.412E-17
-9.89401E-01	2.350E-15	9.793E-16	4.072E-16	1.687E-16	6.986E-17	2.858E-17
TOTAL	1.039E-14	4.373E-15	1.834E-15	7.664E-16	3.177E-16	1.260E-16

4 PI R\*\*2 SNYDER-NEUFELD DOSE (NEUTRONS)  
 (CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

		12.60 TO 15.60 MEV NEUTRON SOURCE									
		RANGE (METERS)					RANGE (METERS)				
		2700.0					4400.0				
		2400.0					4200.0				
		2100.0					4000.0				
		1800.0					3800.0				
COSINE											
-1.00000E-00		3.790E-12	1.202E-12	3.655E-13	1.079E-13	3.110E-14	8.805E-15	2.458E-15	2.458E-15	2.458E-15	2.458E-15
-9.89401E-01		3.600E-12	1.205E-12	3.664E-13	1.081E-13	3.118E-14	8.827E-15	2.464E-15	2.464E-15	2.464E-15	2.464E-15
-9.44375E-01		3.841E-12	1.218E-12	3.704E-13	1.093E-13	3.151E-14	8.922E-15	2.490E-15	2.490E-15	2.490E-15	2.490E-15
-8.65631E-01		3.918E-12	1.242E-12	3.789E-13	1.115E-13	3.214E-14	9.099E-15	2.540E-15	2.540E-15	2.540E-15	2.540E-15
-7.55044E-01		4.034E-12	1.279E-12	3.899E-13	1.147E-13	3.308E-14	9.366E-15	2.614E-15	2.614E-15	2.614E-15	2.614E-15
-6.17876E-01		4.197E-12	1.330E-12	4.044E-13	1.193E-13	3.439E-14	9.735E-15	2.717E-15	2.717E-15	2.717E-15	2.717E-15
-4.58017E-01		4.414E-12	1.398E-12	4.249E-13	1.253E-13	3.611E-14	1.022E-14	2.852E-15	2.852E-15	2.852E-15	2.852E-15
-2.81605E-01		4.698E-12	1.486E-12	4.514E-13	1.330E-13	3.832E-14	1.084E-14	3.025E-15	3.025E-15	3.025E-15	3.025E-15
-9.50125E-02		5.059E-12	1.598E-12	4.848E-13	1.428E-13	4.111E-14	1.163E-14	3.243E-15	3.243E-15	3.243E-15	3.243E-15
9.50125E-02		5.514E-12	1.735E-12	5.267E-13	1.550E-13	4.455E-14	1.261E-14	3.514E-15	3.514E-15	3.514E-15	3.514E-15
2.81605E-01		6.092E-12	1.916E-12	5.797E-13	1.704E-13	4.897E-14	1.383E-14	3.855E-15	3.855E-15	3.855E-15	3.855E-15
4.58017E-01		6.843E-12	2.146E-12	6.479E-13	1.901E-13	5.455E-14	1.541E-14	4.290E-15	4.290E-15	4.290E-15	4.290E-15
6.17876E-01		7.857E-12	2.454E-12	7.304E-13	2.162E-13	6.195E-14	1.746E-14	4.857E-15	4.857E-15	4.857E-15	4.857E-15
7.55044E-01		9.276E-12	2.877E-12	8.613E-13	2.512E-13	7.177E-14	2.018E-14	5.604E-15	5.604E-15	5.604E-15	5.604E-15
8.65631E-01		1.132E-11	3.472E-12	1.031E-12	2.988E-13	8.497E-14	2.381E-14	6.590E-15	6.590E-15	6.590E-15	6.590E-15
9.44375E-01		1.431E-11	4.311E-12	1.263E-12	3.624E-13	1.023E-13	2.847E-14	7.841E-15	7.841E-15	7.841E-15	7.841E-15
9.89401E-01		1.899E-11	5.505E-12	1.571E-12	4.421E-13	1.230E-13	3.386E-14	9.241E-15	9.241E-15	9.241E-15	9.241E-15
TOTAL		7.878E-11	2.458E-11	7.592E-12	2.163E-12	6.198E-13	1.747E-13	4.858E-14	4.858E-14	4.858E-14	4.858E-14

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4 PL R#2 TISSUE KERMA (NEUTRONS)  
 (CM\*\*2 ERG5/GRAM/STERADIAN/SOURCE NEUTRON)

12.200 TJ 15.000 MEV NEUTRON SOURCE

LUSINE	RANGE (METERS)				
	1800.0	2100.0	2400.0	2700.0	3000.0
-1.00000E-06	2.012E-10	6.265E-11	1.891E-11	5.536E-12	1.587E-12
-9.89401E-01	2.018E-10	6.303E-11	1.897E-11	5.522E-12	1.591E-12
-9.44575E-01	2.044E-10	6.382E-11	1.920E-11	5.622E-12	1.611E-12
-8.65031E-01	2.092E-10	6.532E-11	1.966E-11	5.753E-12	1.649E-12
-7.55044E-01	2.164E-10	6.759E-11	2.034E-11	5.954E-12	1.707E-12
-6.17876E-01	2.267E-10	7.079E-11	2.130E-11	6.236E-12	1.787E-12
-4.58017E-01	2.406E-10	7.511E-11	2.259E-11	6.613E-12	1.895E-12
-2.81605E-01	2.590E-10	8.079E-11	2.429E-11	7.103E-12	2.036E-12
-9.50125E-02	2.828E-10	8.809E-11	2.666E-11	7.734E-12	2.255E-12
-9.50125E-02	3.132E-10	9.740E-11	2.924E-11	8.534E-12	2.442E-12
-2.81605E-01	3.524E-10	1.094E-10	3.276E-11	9.560E-12	2.734E-12
4.58017E-01	4.042E-10	1.252E-10	3.742E-11	1.090E-11	3.114E-12
6.17876E-01	4.757E-10	1.467E-10	4.373E-11	1.271E-11	3.624E-12
7.55044E-01	5.780E-10	1.770E-10	5.247E-11	1.519E-11	4.318E-12
8.65031E-01	7.283E-10	2.204E-10	6.476E-11	1.862E-11	5.266E-12
9.44575E-01	9.524E-10	2.825E-10	8.184E-11	2.328E-11	6.526E-12
9.89401E-01	1.311E-09	3.726E-10	1.048E-10	2.918E-11	8.051E-12
TOTAL	4.650E-09	1.428E-09	4.248E-10	1.233E-10	3.511E-11
COSINE	RANGE (METERS)				
	3000.0	4000.0	4200.0	4400.0	4600.0
-1.00000E-06	5.271E-14	2.224E-14	9.342E-15	3.903E-15	1.598E-15
-9.89401E-01	5.287E-14	2.230E-14	9.370E-15	3.914E-15	1.603E-15
-9.44575E-01	5.354E-14	2.258E-14	9.489E-15	3.965E-15	1.625E-15
-8.65031E-01	5.480E-14	2.312E-14	9.713E-15	4.060E-15	1.666E-15
-7.55044E-01	5.674E-14	2.393E-14	1.005E-14	4.203E-15	1.729E-15
-6.17876E-01	5.939E-14	2.505E-14	1.053E-14	4.403E-15	1.815E-15
-4.58017E-01	6.295E-14	2.655E-14	1.116E-14	4.667E-15	1.928E-15
-2.81605E-01	6.750E-14	2.850E-14	1.198E-14	5.011E-15	2.073E-15
-9.50125E-02	7.346E-14	3.098E-14	1.302E-14	5.448E-15	2.257E-15
-9.50125E-02	8.093E-14	3.413E-14	1.434E-14	5.999E-15	2.489E-15
2.81605E-01	9.048E-14	3.814E-14	1.602E-14	6.704E-15	2.785E-15
4.58017E-01	1.029E-13	4.337E-14	1.811E-14	7.820E-15	3.167E-15
6.17876E-01	1.194E-13	5.028E-14	2.111E-14	8.829E-15	3.671E-15
7.55044E-01	1.414E-13	5.951E-14	2.496E-14	1.043E-14	4.339E-15
8.65031E-01	1.709E-13	7.179E-14	3.078E-14	1.255E-14	5.217E-15
9.44575E-01	2.085E-13	8.733E-14	3.648E-14	1.520E-14	6.365E-15
9.89401E-01	2.501E-13	1.043E-13	4.336E-14	1.799E-14	7.440E-15
TOTAL	1.154E-12	4.858E-13	2.038E-13	8.519E-14	3.531E-14
					1.396E-14



12.260 TO 15.000 MEV NEUTRON SOURCE

4 PI R\*2 MID-PHANTOM LOSE (NEUTRONS)  
(CM\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	1800.0	2100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.00000E-00	6.667E-13	2.086E-13	6.292E-14	1.846E-14	5.298E-15	1.496E-15	4.165E-16
-8.89401E-01	6.686E-13	2.092E-13	6.308E-14	1.850E-14	5.312E-15	1.499E-15	4.176E-16
-9.44575E-01	6.763E-13	2.116E-13	6.379E-14	1.871E-14	5.371E-15	1.516E-15	4.222E-16
-8.65631E-01	6.910E-13	2.161E-13	6.519E-14	1.910E-14	5.482E-15	1.547E-15	4.309E-16
-7.55044E-01	7.131E-13	2.229E-13	6.718E-14	1.970E-14	5.653E-15	1.593E-15	4.442E-16
-6.17876E-01	7.454E-13	2.329E-13	7.013E-14	2.055E-14	5.897E-15	1.664E-15	4.632E-16
-4.58017E-01	7.905E-13	2.466E-13	7.418E-14	2.172E-14	6.229E-15	1.756E-15	4.888E-16
-2.81605E-01	8.524E-13	2.651E-13	7.961E-14	2.328E-14	6.688E-15	1.879E-15	5.226E-16
-9.50125E-02	9.340E-13	2.895E-13	8.698E-14	2.530E-14	7.238E-15	2.038E-15	5.663E-16
9.50125E-02	1.041E-12	3.212E-13	9.591E-14	2.793E-14	7.979E-15	2.244E-15	6.231E-16
2.81605E-01	1.182E-12	3.634E-13	1.082E-13	3.145E-14	8.968E-15	2.519E-15	6.990E-16
4.58017E-01	1.383E-12	4.250E-13	1.255E-13	3.638E-14	1.036E-14	2.904E-15	8.050E-16
6.17876E-01	1.687E-12	5.126E-13	1.513E-13	4.368E-14	1.239E-14	3.468E-15	9.586E-16
7.55044E-01	2.172E-12	6.528E-13	1.911E-13	5.481E-14	1.547E-14	4.313E-15	1.190E-15
8.65631E-01	2.965E-12	8.762E-13	2.531E-13	7.188E-14	2.013E-14	5.577E-15	1.530E-15
9.44575E-01	4.264E-12	1.228E-12	3.478E-13	9.726E-14	2.691E-14	7.380E-15	2.009E-15
9.89401E-01	6.550E-12	1.787E-12	4.869E-13	1.323E-13	3.582E-14	9.655E-15	2.591E-15
TOTAL	1.689E-11	5.103E-12	1.501E-12	4.321E-13	1.224E-13	3.419E-14	9.446E-15

COSINE	3800.0	4000.0	RANGE (METERS) 4200.0	4400.0	4600.0	4800.0
-1.00000E-00	1.765E-16	7.448E-17	3.130E-17	1.308E-17	5.364E-18	1.935E-18
-9.89401E-01	1.770E-16	7.467E-17	3.138E-17	1.312E-17	5.376E-18	1.942E-18
-9.44575E-01	1.789E-16	7.550E-17	3.173E-17	1.326E-17	5.442E-18	1.972E-18
-8.65631E-01	1.826E-16	7.705E-17	3.238E-17	1.354E-17	5.562E-18	2.029E-18
-7.55044E-01	1.882E-16	7.943E-17	3.338E-17	1.396E-17	5.744E-18	2.117E-18
-6.17876E-01	1.963E-16	8.281E-17	3.480E-17	1.456E-17	6.006E-18	2.241E-18
-4.58017E-01	2.071E-16	8.736E-17	3.671E-17	1.536E-17	6.342E-18	2.405E-18
-2.81605E-01	2.213E-16	9.335E-17	3.922E-17	1.641E-17	6.786E-18	2.615E-18
-9.50125E-02	2.397E-16	1.011E-16	4.246E-17	1.776E-17	7.355E-18	2.870E-18
9.50125E-02	2.637E-16	1.111E-16	4.667E-17	1.952E-17	8.093E-18	3.192E-18
2.81605E-01	2.957E-16	1.246E-16	5.230E-17	2.187E-17	9.077E-18	3.612E-18
4.58017E-01	3.403E-16	1.433E-16	6.015E-17	2.515E-17	1.045E-17	4.189E-18
6.17876E-01	4.053E-16	1.709E-16	7.152E-17	2.989E-17	1.242E-17	5.015E-18
7.55044E-01	5.015E-16	2.107E-16	8.826E-17	3.685E-17	1.531E-17	6.215E-18
8.65631E-01	6.433E-16	2.696E-16	1.127E-16	4.694E-17	1.948E-17	7.938E-18
9.44575E-01	8.404E-16	3.507E-16	1.460E-16	6.063E-17	2.509E-17	1.024E-17
9.89401E-01	1.075E-15	4.456E-16	1.843E-16	7.811E-17	3.134E-17	1.277E-17
TOTAL	3.986E-15	1.676E-15	7.023E-16	2.932E-16	1.214E-16	4.796E-17

12.200 TO 15.000 MEV NEUTRON SOURCE

4 P1 R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 CMGS/GRAM/STERADIAN/SOURCE NEUTRON)

CUSINE	1800.0	2100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.00000E-06	2.357E-11	7.526E-12	2.197E-12	6.415E-13	1.835E-13	5.168E-14	1.436E-14
-9.89401E-01	2.364E-11	7.345E-12	2.204E-12	6.435E-13	1.841E-13	5.183E-14	1.441E-14
-9.44575E-01	2.396E-11	7.445E-12	2.232E-12	6.519E-13	1.865E-13	5.251E-14	1.460E-14
-8.65031E-01	2.454E-11	7.626E-12	2.287E-12	6.677E-13	1.910E-13	5.379E-14	1.495E-14
-7.55044E-01	2.542E-11	7.899E-12	2.398E-12	6.917E-13	1.979E-13	5.572E-14	1.549E-14
-6.17876E-01	2.667E-11	8.287E-12	2.485E-12	7.256E-13	2.076E-13	5.845E-14	1.625E-14
-4.58017E-01	2.838E-11	8.814E-12	2.642E-12	7.712E-13	2.206E-13	6.210E-14	1.726E-14
-2.81605E-01	3.068E-11	9.517E-12	2.850E-12	8.314E-13	2.377E-13	6.689E-14	1.859E-14
-9.50125E-02	3.368E-11	1.043E-11	3.118E-12	9.087E-13	2.596E-13	7.362E-14	2.028E-14
9.50125E-02	3.754E-11	1.159E-11	3.461E-12	1.008E-12	2.877E-13	8.086E-14	2.245E-14
2.81605E-01	4.254E-11	1.310E-11	3.905E-12	1.135E-12	3.236E-13	9.094E-14	2.523E-14
4.58017E-01	4.923E-11	1.512E-11	4.494E-12	1.304E-12	3.715E-13	1.042E-13	2.890E-14
6.17876E-01	5.869E-11	1.793E-11	5.508E-12	1.536E-12	4.364E-13	1.242E-13	3.384E-14
7.55044E-01	7.273E-11	2.200E-11	6.466E-12	1.861E-12	5.265E-13	1.470E-13	4.059E-14
8.65031E-01	9.429E-11	2.805E-11	8.146E-12	2.323E-12	6.527E-13	1.812E-13	4.983E-14
9.44575E-01	1.280E-10	3.707E-11	1.056E-11	2.966E-12	8.242E-13	2.288E-13	6.193E-14
9.89401E-01	1.058E-10	5.086E-11	1.394E-11	3.811E-12	1.036E-12	2.812E-13	7.585E-14
TOTAL	5.746E-10	1.743E-10	5.140E-11	1.483E-11	4.266E-12	1.176E-12	3.253E-13

RANGE (METERS)

CUSINE

CUSINE	3000.0	4000.0	4200.0	RANGE (METERS) 4400.0	4600.0	4800.0
-1.00000E-06	0.081E-15	2.564E-15	1.077E-15	4.497E-16	1.841E-16	6.583E-17
-9.89401E-01	6.100E-15	2.572E-15	1.080E-15	4.511E-16	1.847E-16	6.612E-17
-9.44575E-01	6.179E-15	2.605E-15	1.094E-15	4.571E-16	1.873E-16	6.739E-17
-8.65031E-01	6.330E-15	2.669E-15	1.121E-15	4.684E-16	1.922E-16	6.977E-17
-7.55044E-01	6.558E-15	2.765E-15	1.161E-15	4.854E-16	1.996E-16	7.340E-17
-6.17876E-01	6.878E-15	2.900E-15	1.218E-15	5.093E-16	2.099E-16	7.843E-17
-4.58017E-01	7.307E-15	3.081E-15	1.294E-15	5.412E-16	2.235E-16	8.504E-17
-2.81605E-01	7.867E-15	3.317E-15	1.393E-15	5.827E-16	2.411E-16	9.334E-17
-9.50125E-02	8.583E-15	3.618E-15	1.519E-15	6.356E-16	2.634E-16	1.034E-16
9.50125E-02	9.498E-15	4.038E-15	1.681E-15	7.031E-16	2.917E-16	1.158E-16
2.81605E-01	1.067E-14	4.497E-15	1.838E-15	7.898E-16	3.280E-16	1.314E-16
4.58017E-01	1.222E-14	5.147E-15	2.166E-15	9.435E-16	3.755E-16	1.515E-16
6.17876E-01	1.430E-14	6.016E-15	2.525E-15	1.058E-15	4.388E-16	1.760E-16
7.55044E-01	1.713E-14	7.200E-15	3.017E-15	1.260E-15	5.239E-16	2.135E-16
8.65031E-01	2.097E-14	8.799E-15	3.630E-15	1.535E-15	6.375E-16	2.605E-16
9.44575E-01	2.596E-14	1.085E-14	4.520E-15	1.882E-15	7.801E-16	3.191E-16
9.89401E-01	3.158E-14	1.312E-14	5.444E-15	2.254E-15	9.304E-16	3.800E-16
TOTAL	1.373E-13	5.777E-14	2.422E-14	1.012E-14	4.191E-15	1.661E-15

## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 P1 R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 EKGXGRAM/STERADIAN/SOURCE NEUTRON)

COSINE	1800.0	2100.0	2400.0	RANGE (METERS)		3000.0	3300.0	3600.0
				2700.0				
-1.00000E-00	2.870E-11	8.967E-12	2.701E-12	7.917E-13	2.272E-13	6.410E-14	1.784E-14	
-9.89401E-01	2.878E-11	8.992E-12	2.708E-12	7.936E-13	2.277E-13	6.426E-14	1.789E-14	
-9.44575E-01	2.912E-11	9.095E-12	2.739E-12	8.026E-13	2.303E-13	6.497E-14	1.809E-14	
-8.65631E-01	2.976E-11	9.290E-12	2.797E-12	8.195E-13	2.351E-13	6.632E-14	1.846E-14	
-7.55044E-01	3.072E-11	9.585E-12	2.885E-12	8.451E-13	2.424E-13	6.838E-14	1.903E-14	
-6.11787E-01	3.210E-11	1.001E-11	3.011E-12	8.818E-13	2.529E-13	7.131E-14	1.985E-14	
-4.58017E-01	3.403E-11	1.060E-11	3.185E-12	9.319E-13	2.671E-13	7.529E-14	2.095E-14	
-2.81605E-01	3.669E-11	1.140E-11	3.418E-12	9.989E-13	2.860E-13	8.056E-14	2.240E-14	
-9.50125E-02	4.022E-11	1.245E-11	3.724E-12	1.086E-12	3.106E-13	8.741E-14	2.429E-14	
9.58125E-02	4.486E-11	1.382E-11	4.124E-12	1.200E-12	3.427E-13	9.634E-14	2.675E-14	
2.81605E-01	5.102E-11	1.565E-11	4.655E-12	1.352E-12	3.854E-13	1.082E-13	3.002E-14	
4.58017E-01	5.962E-11	1.820E-11	5.394E-12	1.562E-12	4.443E-13	1.246E-13	3.451E-14	
6.11787E-01	7.246E-11	2.196E-11	6.470E-12	1.866E-12	5.289E-13	1.479E-13	4.091E-14	
7.55044E-01	9.260E-11	2.772E-11	8.099E-12	2.316E-12	6.529E-13	1.818E-13	5.011E-14	
8.65631E-01	1.250E-10	3.670E-11	1.055E-11	2.988E-12	8.351E-13	2.310E-13	6.331E-14	
9.44575E-01	1.776E-10	5.061E-11	1.423E-11	3.961E-12	1.093E-12	2.990E-13	8.125E-14	
9.89401E-01	2.706E-10	7.255E-11	1.955E-11	5.274E-12	1.421E-12	3.821E-13	1.024E-13	
TOTAL	7.208E-10	2.170E-10	6.565E-11	1.830E-11	5.178E-12	1.446E-12	3.993E-13	

COSINE	3800.0	4000.0	4200.0	RANGE (METERS)		4600.0	4800.0	
				4400.0				
-1.00000E-00	7.561E-15	3.190E-15	1.341E-15	5.603E-16	2.296E-16	8.200E-17		
-9.89401E-01	7.581E-15	3.199E-15	1.344E-15	5.617E-16	2.302E-16	8.291E-17		
-9.44575E-01	7.664E-15	3.234E-15	1.359E-15	5.680E-16	2.330E-16	8.423E-17		
-8.65631E-01	7.822E-15	3.300E-15	1.387E-15	5.798E-16	2.381E-16	8.673E-17		
-7.55044E-01	8.069E-15	3.403E-15	1.430E-15	5.979E-16	2.460E-16	9.055E-17		
-6.11787E-01	8.409E-15	3.547E-15	1.491E-15	6.235E-16	2.570E-16	9.593E-17		
-4.58017E-01	8.873E-15	3.743E-15	1.573E-15	6.575E-16	2.717E-16	1.031E-16		
-2.81605E-01	9.487E-15	4.001E-15	1.681E-15	7.032E-16	2.909E-16	1.121E-16		
-9.50125E-02	1.028E-14	4.335E-15	1.821E-15	7.617E-16	3.155E-16	1.232E-16		
9.50125E-02	1.132E-14	4.771E-15	2.003E-15	8.380E-16	3.475E-16	1.372E-16		
2.81605E-01	1.270E-14	5.349E-15	2.246E-15	9.392E-16	3.898E-16	1.553E-16		
4.58017E-01	1.459E-14	6.143E-15	2.578E-15	1.078E-15	4.477E-16	1.797E-16		
6.11787E-01	1.727E-14	7.266E-15	3.047E-15	1.273E-15	5.290E-16	2.137E-16		
7.55044E-01	2.112E-14	8.871E-15	3.715E-15	1.551E-15	6.440E-16	2.615E-16		
8.65631E-01	2.660E-14	1.114E-14	4.656E-15	1.940E-15	8.046E-16	3.278E-16		
9.44575E-01	3.398E-14	1.417E-14	5.898E-15	2.449E-15	1.013E-15	4.134E-16		
9.89401E-01	4.247E-14	1.759E-14	7.276E-15	3.005E-15	1.238E-15	5.039E-16		
TOTAL	1.685E-13	7.084E-14	2.968E-14	1.239E-14	5.132E-15	2.027E-15		

4 PI N\*\*2 IONIZING SILICON KEMMA (NEUTRONS)  
(CM\*\*2 EKGS/GRAM/STERADIAN/SOURCE NEUTRON)

12.200 TO 15.000 MEV NEUTRON SOURCE

COSINE	1800.0	2100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.00000E-00	2.292E-12	6.740E-13	1.943E-13	5.515E-14	1.545E-14	4.284E-15	1.177E-15
-9.89401E-01	2.304E-12	6.772E-13	1.952E-13	5.540E-14	1.552E-14	4.303E-15	1.182E-15
-9.44575E-01	2.350E-12	6.904E-13	1.989E-13	5.645E-14	1.581E-14	4.383E-15	1.204E-15
-8.65631E-01	2.422E-12	7.145E-13	2.058E-13	5.839E-14	1.636E-14	4.535E-15	1.245E-15
-7.55044E-01	2.551E-12	7.500E-13	2.161E-13	6.135E-14	1.718E-14	4.762E-15	1.308E-15
-6.17876E-01	2.734E-12	8.036E-13	2.316E-13	6.572E-14	1.841E-14	5.100E-15	1.400E-15
-4.58017E-01	3.012E-12	8.841E-13	2.544E-13	7.207E-14	2.016E-14	5.582E-15	1.532E-15
-2.81005E-01	3.426E-12	1.001E-12	2.868E-13	8.103E-14	2.262E-14	6.251E-15	1.713E-15
-9.50125E-02	3.996E-12	1.159E-12	3.307E-13	9.307E-14	2.591E-14	7.144E-15	1.954E-15
9.50125E-02	4.748E-12	1.369E-12	3.887E-13	1.090E-13	3.028E-14	8.334E-15	2.276E-15
2.81605E-01	5.759E-12	1.655E-12	4.685E-13	1.311E-13	3.635E-14	9.994E-15	2.728E-15
4.58017E-01	7.279E-12	2.047E-12	5.896E-13	1.647E-13	4.560E-14	1.252E-14	3.415E-15
6.17876E-01	9.811E-12	2.810E-12	7.931E-13	2.208E-13	6.094E-14	1.669E-14	4.542E-15
7.55044E-01	1.460E-11	4.127E-12	1.151E-12	3.182E-13	8.725E-14	2.378E-14	6.441E-15
8.65631E-01	2.332E-11	6.477E-12	1.781E-12	4.863E-13	1.320E-13	3.566E-14	9.591E-15
9.44575E-01	3.913E-11	1.058E-11	2.848E-12	7.636E-13	2.042E-13	5.445E-14	1.448E-14
9.89401E-01	7.026E-11	1.787E-11	4.593E-12	1.189E-12	3.093E-13	8.061E-14	2.103E-14
TOTAL	1.012E-10	2.831E-11	7.850E-12	2.161E-12	5.910E-13	1.607E-13	4.344E-14

RANGE (METERS)

4200.0

4400.0

4600.0

4800.0

5000.0

5200.0

5400.0

5600.0

5800.0

6000.0

6200.0

6400.0

6600.0

6800.0

7000.0

7200.0

7400.0

7600.0

7800.0

8000.0

8200.0

8400.0

8600.0

8800.0

9000.0

9200.0

9400.0

9600.0

9800.0

10000.0

10200.0

10400.0

10600.0

10800.0

11000.0

11200.0

11400.0

11600.0

11800.0

12000.0

12200.0

12400.0

12600.0

12800.0

13000.0

13200.0

13400.0

13600.0

13800.0

14000.0

14200.0

14400.0

14600.0

14800.0

15000.0

15200.0

15400.0

15600.0

15800.0

16000.0

16200.0

16400.0

16600.0

16800.0

17000.0

17200.0

17400.0

17600.0

17800.0

18000.0

18200.0

18400.0

18600.0

18800.0

19000.0

19200.0

19400.0

19600.0

19800.0

20000.0

20200.0

20400.0

20600.0

20800.0

21000.0

21200.0

21400.0

21600.0

21800.0

22000.0

22200.0

22400.0

22600.0

22800.0

23000.0

23200.0

23400.0

23600.0

23800.0

24000.0

24200.0

24400.0

24600.0

24800.0

25000.0

25200.0

25400.0

25600.0

25800.0

26000.0

26200.0

26400.0

26600.0

26800.0

27000.0

27200.0

27400.0

27600.0

27800.0

28000.0

28200.0

28400.0

28600.0

28800.0

29000.0

29200.0

29400.0

29600.0

29800.0

30000.0

30200.0

30400.0

30600.0

30800.0

31000.0

31200.0

31400.0

31600.0

31800.0

32000.0

32200.0

32400.0

32600.0

32800.0

33000.0

33200.0

33400.0

33600.0

33800.0

34000.0

34200.0

34400.0

34600.0

34800.0

35000.0

35200.0

35400.0

35600.0

35800.0

36000.0

36200.0

36400.0

36600.0

36800.0

37000.0

37200.0

37400.0

37600.0

37800.0

38000.0

38200.0

38400.0

38600.0

38800.0

39000.0

39200.0

39400.0

39600.0

39800.0

40000.0

40200.0

40400.0

40600.0

40800.0

41000.0

41200.0

41400.0

41600.0

41800.0

42000.0

42200.0

42400.0

42600.0

42800.0

43000.0

43200.0

43400.0

43600.0

43800.0

44000.0

44200.0

44400.0

44600.0

44800.0

45000.0

45200.0

45400.0

45600.0

45800.0

46000.0

46200.0

46400.0

46600.0

46800.0

47000.0

47200.0

47400.0

47600.0

47800.0

48000.0

48200.0

48400.0

48600.0

48800.0

49000.0

4 PI P\*\*2 NON IONIZING SILICON KERMA (NEUTRONS) 12.260 TO 15.000 MeV NEUTRON SOURCE  
(CH\*\*2 ERG/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	1800.0	2100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.0000E-00	2.424E-12	7.521E-13	2.251E-13	6.566E-14	1.877E-14	5.279E-15	1.466E-15
-9.8940E-01	2.432E-12	7.545E-13	2.259E-13	6.587E-14	1.883E-14	5.296E-15	1.471E-15
-9.4457E-01	2.465E-12	7.648E-13	2.290E-13	6.678E-14	1.909E-14	5.370E-15	1.492E-15
-8.6563E-01	2.527E-12	7.843E-13	2.348E-13	6.850E-14	1.958E-14	5.509E-15	1.530E-15
-7.5504E-01	2.622E-12	8.139E-13	2.437E-13	7.111E-14	2.033E-14	5.720E-15	1.589E-15
-6.1787E-01	2.757E-12	8.559E-13	2.564E-13	7.479E-14	2.138E-14	6.016E-15	1.672E-15
-4.5801E-01	2.940E-12	9.126E-13	2.735E-13	7.973E-14	2.279E-14	6.413E-15	1.782E-15
-2.8165E-01	3.183E-12	9.875E-13	2.958E-13	8.622E-14	2.464E-14	6.933E-15	1.926E-15
-9.5012E-02	3.497E-12	1.084E-12	3.243E-13	9.454E-14	2.701E-14	7.597E-15	2.110E-15
-9.5012E-02	3.901E-12	1.208E-12	3.610E-13	1.052E-13	3.003E-14	8.444E-15	2.345E-15
2.8140E-01	4.421E-12	1.367E-12	4.081E-13	1.188E-13	3.391E-14	9.531E-15	2.646E-15
4.5801E-01	5.109E-12	1.577E-12	4.701E-13	1.367E-13	3.899E-14	1.095E-14	3.038E-15
6.1787E-01	6.055E-12	1.862E-12	5.533E-13	1.608E-13	4.578E-14	1.284E-14	3.560E-15
7.5504E-01	7.398E-12	2.261E-12	6.696E-13	1.936E-13	5.499E-14	1.539E-14	4.259E-15
8.6563E-01	9.358E-12	2.830E-12	8.314E-13	2.391E-13	6.755E-14	1.884E-14	5.196E-15
9.4457E-01	1.225E-11	3.640E-12	1.055E-12	3.002E-13	8.418E-14	2.332E-14	6.399E-15
9.8940E-01	1.683E-11	4.803E-12	1.354E-12	3.776E-13	1.043E-13	2.853E-14	7.758E-15
TOTAL	5.837E-11	1.787E-11	5.299E-12	1.555E-12	4.364E-13	1.223E-13	3.385E-14

COSINE	3800.0	4000.0	4200.0	RANGE (METERS) 4400.0	4600.0	4800.0
-1.0000E-00	6.206E-16	2.616E-16	1.098E-16	4.586E-17	1.876E-17	6.682E-18
-9.8940E-01	6.226E-16	2.625E-16	1.102E-16	4.601E-17	1.882E-17	6.714E-18
-9.4457E-01	6.313E-16	2.661E-16	1.117E-16	4.666E-17	1.911E-17	6.853E-18
-8.6563E-01	6.477E-16	2.730E-16	1.147E-16	4.789E-17	1.964E-17	7.113E-18
-7.5504E-01	6.726E-16	2.835E-16	1.191E-16	4.976E-17	2.045E-17	7.508E-18
-6.1787E-01	7.075E-16	2.983E-16	1.253E-16	5.236E-17	2.157E-17	8.059E-18
-4.5801E-01	7.542E-16	3.179E-16	1.335E-16	5.583E-17	2.306E-17	8.779E-18
-2.8165E-01	8.151E-16	3.436E-16	1.443E-16	6.035E-17	2.497E-17	9.684E-18
-9.5012E-02	8.929E-16	3.764E-16	1.581E-16	6.611E-17	2.746E-17	1.078E-17
-9.5012E-02	9.921E-16	4.181E-16	1.756E-16	7.346E-17	3.049E-17	1.213E-17
2.8165E-01	1.119E-15	4.717E-16	1.980E-16	8.285E-17	3.442E-17	1.382E-17
4.5801E-01	1.285E-15	5.414E-16	2.273E-16	9.508E-17	3.953E-17	1.598E-17
6.1787E-01	1.505E-15	6.337E-16	2.659E-16	1.112E-16	4.626E-17	1.881E-17
7.5504E-01	1.799E-15	7.567E-16	3.173E-16	1.326E-16	5.517E-17	2.253E-17
8.6563E-01	2.190E-15	9.202E-16	3.853E-16	1.609E-16	6.686E-17	2.738E-17
9.4457E-01	2.690E-15	1.127E-15	4.707E-16	1.961E-16	8.139E-17	3.336E-17
9.8940E-01	3.243E-15	1.352E-15	5.625E-16	2.334E-16	9.657E-17	3.954E-17
TOTAL	1.430E-14	6.019E-15	2.524E-15	1.055E-15	4.373E-16	1.736E-16

## 12.200 TU 15.000 MEV NEUTRON SOURCE

4 FI R\*\*2 HENDKSON DUSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	1800.0	2100.0	2400.0	2700.0	3000.0
-1.00000000	1.001E-13	2.806E-14	6.687E-15	9.537E-16	-2.990E-16
-9.89401E-01	1.471E-13	5.152E-14	1.828E-14	6.636E-15	2.470E-15
-9.44575E-01	2.918E-13	1.244E-13	5.457E-14	2.453E-14	1.124E-14
-8.65031E-01	4.048E-13	1.821E-13	8.368E-14	3.906E-14	1.846E-14
-7.55044E-01	5.211E-13	2.381E-13	1.100E-13	5.133E-14	2.420E-14
-6.17876E-01	4.496E-13	1.930E-13	8.605E-14	3.912E-14	1.802E-14
-4.58017E-01	3.730E-13	1.563E-13	6.600E-14	2.913E-14	1.301E-14
-2.81605E-01	4.164E-13	1.732E-13	7.421E-14	3.263E-14	1.468E-14
-9.50125E-02	5.676E-13	2.470E-13	1.127E-13	5.185E-14	2.411E-14
9.50125E-02	8.188E-13	3.668E-13	1.697E-13	7.720E-14	3.644E-14
2.81605E-01	1.108E-12	4.971E-13	2.204E-13	1.345E-13	4.902E-14
4.58017E-01	1.285E-12	5.365E-13	2.276E-13	9.698E-14	4.259E-14
6.17876E-01	1.646E-12	6.618E-13	2.676E-13	1.105E-13	4.666E-14
7.55044E-01	3.043E-12	1.311E-12	5.794E-13	2.630E-13	1.196E-13
8.65631E-01	7.856E-12	3.489E-12	1.006E-12	7.406E-13	3.530E-13
9.44575E-01	2.211E-11	1.051E-11	4.993E-12	2.377E-12	1.134E-12
9.89401E-01	8.911E-11	4.383E-11	2.133E-11	1.032E-11	4.973E-12
TOTAL	3.873E-11	1.809E-11	8.493E-12	4.003E-12	1.896E-12
					9.020E-13
					4.307E-13
COSINE	RANGE (METERS)				
	3600.0	4000.0	4200.0	4400.0	4600.0
-1.00000000	-1.921E-16	-1.316E-16	-8.059E-17	-4.029E-17	-6.348E-18
-9.89401E-01	2.029E-16	1.148E-16	6.989E-17	4.990E-17	4.473E-17
-9.44575E-01	1.489E-15	9.073E-16	5.555E-16	3.426E-16	2.121E-16
-8.65031E-01	2.572E-15	1.579E-15	9.709E-16	5.968E-16	3.624E-16
-7.55044E-01	3.313E-15	2.026E-15	1.238E-15	7.513E-16	4.409E-16
-6.17876E-01	2.404E-15	1.461E-15	8.830E-16	5.393E-16	3.273E-16
-4.58017E-01	1.655E-15	9.839E-16	5.937E-16	3.591E-16	2.177E-16
-2.81605E-01	1.871E-15	1.132E-15	6.868E-16	4.178E-16	2.543E-16
9.50125E-02	3.313E-15	2.031E-15	1.247E-15	7.605E-16	4.617E-16
2.81605E-01	5.110E-15	3.142E-15	1.934E-15	1.192E-15	7.320E-16
4.58017E-01	6.736E-15	4.105E-15	2.514E-15	1.542E-15	9.458E-16
6.17876E-01	5.118E-15	3.062E-15	1.831E-15	1.096E-15	6.564E-16
7.55044E-01	4.876E-15	2.840E-15	1.603E-15	9.800E-16	5.786E-16
8.65631E-01	1.527E-14	9.231E-15	5.606E-15	3.415E-15	2.087E-15
9.44575E-01	4.981E-14	3.071E-14	1.898E-14	1.173E-14	7.202E-15
9.89401E-01	1.609E-13	9.914E-14	6.117E-14	3.779E-14	2.337E-14
9.89401E-01	7.049E-13	4.325E-13	2.655E-13	1.630E-13	1.002E-13
TOTAL	2.636E-13	1.616E-13	9.916E-14	6.092E-14	3.744E-14
					2.295E-14

## 12.210 TO 15.000 MCV NEUTRON SOURCE

4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ENGS/6GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	1800.0	2100.0	2400.0	2700.0	3000.0
-1.00000E-00	2.758E-11	1.089E-11	4.402E-12	1.835E-12	7.832E-13
-9.89401E-01	3.224E-11	1.322E-11	5.592E-12	2.400E-12	1.059E-12
-9.44575E-01	4.666E-11	2.048E-11	9.178E-12	4.186E-12	1.935E-12
-8.65631E-01	5.804E-11	2.629E-11	1.211E-11	5.647E-12	2.659E-12
-7.55044E-01	6.986E-11	3.197E-11	1.478E-11	6.895E-12	3.246E-12
-6.17876E-01	6.328E-11	2.772E-11	1.250E-11	5.725E-12	2.651E-12
-4.58017E-01	5.19E-11	2.430E-11	1.068E-11	4.773E-12	2.170E-12
-2.81605E-01	6.097E-11	2.618E-11	1.150E-11	5.155E-12	2.350E-12
-9.50125E-02	7.647E-11	3.372E-11	1.542E-11	7.107E-12	3.307E-12
9.50125E-02	1.018E-10	4.577E-11	2.114E-11	9.648E-12	4.543E-12
2.81605E-01	1.310E-10	5.891E-11	2.688E-11	1.241E-11	5.816E-12
4.58017E-01	1.490E-10	6.303E-11	2.706E-11	1.168E-11	5.183E-12
6.17876E-01	1.840E-10	7.487E-11	3.069E-11	1.286E-11	5.446E-12
7.55044E-01	3.193E-10	1.375E-10	6.074E-11	2.753E-11	1.250E-11
8.65631E-01	7.695E-10	3.496E-10	1.605E-10	7.446E-11	3.515E-11
9.44575E-01	2.199E-09	1.043E-09	4.952E-10	2.356E-10	1.124E-10
9.89401E-01	8.975E-09	4.421E-09	2.155E-09	1.044E-09	5.030E-10
TOTAL	4.097E-09	1.912E-09	8.965E-10	4.222E-10	1.999E-10

COSINE	RANGE (METERS)				
	3800.0	4000.0	4200.0	4400.0	4600.0
-1.00000E-00	8.950E-14	5.330E-14	3.240E-14	2.059E-14	1.410E-14
-9.89401E-01	1.296E-13	7.795E-14	4.747E-14	2.963E-14	1.923E-14
-9.44575E-01	2.584E-13	1.574E-13	9.620E-14	5.902E-14	3.606E-14
-8.65631E-01	3.676E-13	2.252E-13	1.381E-13	8.472E-14	5.128E-14
-7.55044E-01	4.435E-13	2.710E-13	1.658E-13	1.006E-13	5.944E-14
-6.17876E-01	3.550E-13	2.159E-13	1.313E-13	7.987E-14	4.835E-14
-4.58017E-01	2.804E-13	1.695E-13	1.027E-13	6.229E-14	3.768E-14
-2.81605E-01	3.054E-13	1.851E-13	1.124E-13	6.842E-14	4.152E-14
-9.50125E-02	4.514E-13	2.761E-13	1.691E-13	4.037E-13	6.257E-14
9.50125E-02	7.316E-13	3.875E-13	2.381E-13	1.464E-13	8.973E-14
2.81605E-01	7.970E-13	4.858E-13	2.974E-13	1.823E-13	1.116E-13
4.58017E-01	6.352E-13	3.811E-13	2.286E-13	1.373E-13	8.239E-14
6.17876E-01	5.951E-13	3.487E-13	2.052E-13	1.214E-13	7.189E-14
7.55044E-01	1.590E-12	9.600E-13	5.822E-13	3.542E-13	2.160E-13
8.65631E-01	4.946E-12	3.048E-12	1.881E-12	1.163E-12	7.201E-13
9.44575E-01	1.595E-11	9.829E-12	6.067E-12	3.750E-12	2.320E-12
9.89401E-01	7.170E-11	4.404E-11	2.706E-11	1.663E-11	1.023E-11
TOTAL	2.778E-11	1.703E-11	1.045E-11	6.421E-12	3.945E-12

4.540E-11

4800.0

4600.0

RANGE (METERS)

4200.0

4000.0

3800.0

## 12.200 TO 15.000 MEV NEUTRON SOURCE

4 PI 3\*\*2 AIR KERMA (GAMMAS)  
 (CN\*\*2 LRG/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	1800.0	2100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.00000E 00	1.438E-10	6.467E-11	2.540E-11	1.352E-11	6.271E-12	2.932E-12	1.379E-12
-9.89401E-01	1.483E-10	6.688E-11	3.049E-11	1.405E-11	6.536E-12	3.057E-12	1.440E-12
-9.44575E-01	1.623E-10	7.388E-11	3.396E-11	1.575E-11	7.361E-12	3.462E-12	1.636E-12
-8.65631E-01	1.744E-10	7.994E-11	3.697E-11	1.724E-11	8.092E-12	3.820E-12	1.811E-12
-7.55044E-01	1.877E-10	8.628E-11	3.993E-11	1.862E-11	8.735E-12	4.123E-12	1.953E-12
-6.17876E-01	1.852E-10	8.397E-11	3.857E-11	1.788E-11	8.351E-12	3.924E-12	1.853E-12
-4.58017E-01	1.831E-10	8.281E-11	3.779E-11	1.742E-11	8.103E-12	3.795E-12	1.787E-12
-2.81605E-01	1.927E-10	8.688E-11	3.962E-11	1.826E-11	8.491E-12	3.976E-12	1.874E-12
-9.50125E-02	2.128E-10	9.639E-11	4.436E-11	2.056E-11	9.601E-12	4.516E-12	2.136E-12
9.50125E-02	2.429E-10	1.104E-10	5.092E-11	2.349E-11	1.101E-11	5.193E-12	2.462E-12
2.81605E-01	2.776E-10	1.266E-10	5.772E-11	2.671E-11	1.248E-11	5.875E-12	2.779E-12
4.58017E-01	3.035E-10	1.338E-10	5.975E-11	2.690E-11	1.230E-11	5.682E-12	2.846E-12
6.17876E-01	3.472E-10	1.500E-10	6.551E-11	2.909E-11	1.306E-11	5.932E-12	2.724E-12
7.55044E-01	4.853E-10	2.138E-10	9.597E-11	4.389E-11	2.015E-11	9.325E-12	4.349E-12
8.65631E-01	9.137E-10	4.155E-10	1.590E-10	8.848E-11	4.165E-11	1.978E-11	9.453E-12
9.44575E-01	2.232E-09	1.055E-09	4.990E-10	2.347E-10	1.126E-10	5.385E-11	2.585E-11
9.89401E-01	8.332E-09	4.089E-09	1.987E-09	9.602E-10	4.624E-10	2.223E-10	1.068E-10
TOTAL	5.661E-09	2.622E-09	1.222E-09	5.724E-10	2.697E-10	1.277E-10	6.071E-11

RANGE (METERS)  
 4200.0 4400.0 4600.0 4800.0

COSINE	3800.0	4000.0	4200.0	RANGE (METERS) 4400.0	4600.0	4800.0
-1.00000E 00	8.366E-13	5.089E-13	3.105E-13	1.902E-13	1.160E-13	6.274E-14
-9.89401E-01	8.740E-13	5.319E-13	3.245E-13	1.986E-13	1.208E-13	6.506E-14
-9.44575E-01	9.954E-13	6.666E-13	3.703E-13	2.263E-13	1.368E-13	7.299E-14
-8.65631E-01	1.104E-12	6.738E-13	4.118E-13	2.517E-13	1.526E-13	8.143E-14
-7.55044E-01	1.188E-12	7.243E-13	4.421E-13	2.694E-13	1.615E-13	8.658E-14
-6.17876E-01	1.128E-12	6.868E-13	4.187E-13	2.535E-13	1.545E-13	8.524E-14
-4.58017E-01	1.085E-12	6.599E-13	4.019E-13	2.450E-13	1.484E-13	8.360E-14
-2.81605E-01	1.137E-12	6.917E-13	4.215E-13	2.571E-13	1.560E-13	8.917E-14
-9.50125E-02	1.300E-12	7.929E-13	4.841E-13	2.959E-13	1.793E-13	1.040E-13
9.50125E-02	1.500E-12	9.255E-13	5.597E-13	3.425E-13	2.088E-13	1.234E-13
2.81605E-01	1.691E-12	1.029E-12	6.282E-13	3.839E-13	2.341E-13	1.381E-13
4.58017E-01	1.596E-12	9.656E-13	5.850E-13	3.568E-13	2.148E-13	1.262E-13
6.17876E-01	1.630E-12	9.796E-13	5.904E-13	3.567E-13	2.155E-13	1.263E-13
7.55044E-01	2.626E-12	1.591E-12	9.672E-13	5.892E-13	3.591E-13	2.157E-13
8.65631E-01	5.795E-12	3.505E-12	2.191E-12	1.350E-12	8.328E-13	5.108E-13
9.44575E-01	1.588E-11	9.773E-12	6.023E-12	3.716E-12	2.295E-12	1.416E-12
9.89401E-01	6.550E-11	4.019E-11	2.467E-11	1.515E-11	9.308E-12	5.720E-12
TOTAL	3.706E-11	2.265E-11	1.387E-11	8.498E-12	5.200E-12	3.114E-12



COSINE	RANGE (METERS)									
	1800.0	2100.0	2400.0	2700.0		3000.0	3300.0	3600.0		
-1.00000E+00	3.510E-11	1.425E-11	5.922E-12	3.525E-12	1.101E-12	4.891E-13	2.208E-13			
-9.89401E-01	3.390E-11	1.665E-11	7.109E-12	3.107E-12	1.385E-12	6.274E-13	2.875E-13			
-9.44457E-01	5.474E-11	2.412E-11	1.084E-11	4.948E-12	2.289E-12	1.069E-12	5.030E-13			
-8.65631E-01	6.645E-11	3.011E-11	1.285E-11	6.454E-12	3.035E-12	1.137E-12	4.841E-13			
-7.55044E-01	7.854E-11	3.592E-11	1.659E-11	7.732E-12	3.636E-12	1.720E-12	8.163E-13			
-6.17876E-01	7.168E-11	3.150E-11	1.422E-11	6.518E-12	3.019E-12	1.411E-12	6.366E-13			
-4.58017E-01	6.423E-11	2.791E-11	1.230E-11	5.520E-12	2.515E-12	1.160E-12	5.398E-13			
-2.81605E-01	6.891E-11	2.973E-11	1.310E-11	5.888E-12	2.689E-12	1.244E-12	5.806E-13			
-9.50125E-02	8.461E-11	3.737E-11	1.709E-11	7.874E-12	3.663E-12	1.723E-12	8.171E-13			
9.50125E+02	1.103E-10	4.960E-11	2.290E-11	1.045E-11	4.919E-12	2.337E-12	1.116E-12			
2.81605E+01	1.349E-10	6.286E-11	2.867E-11	1.324E-11	6.205E-12	2.932E-12	1.393E-12			
4.58017E+01	1.573E-10	6.668E-11	2.867E-11	1.240E-11	5.508E-12	2.485E-12	1.134E-12			
6.17876E+01	1.916E-10	7.803E-11	3.200E-11	1.542E-11	5.878E-12	2.444E-12	1.069E-12			
7.55044E+01	3.279E-10	1.411E-10	6.225E-11	2.818E-11	1.279E-11	5.845E-12	2.700E-12			
8.65631E+01	7.864E-10	3.571E-10	1.638E-10	7.596E-11	3.585E-11	1.709E-11	8.202E-12			
9.44575E+01	2.252E-09	1.068E-09	5.071E-10	2.413E-10	1.151E-10	5.516E-11	2.655E-11			
9.89401E+01	9.251E-09	4.540E-09	2.224E-09	1.078E-09	5.206E-10	2.509E-10	1.208E-10			
TOTAL	4.270E-09	1.991E-09	9.338E-10	4.397E-10	2.082E-10	9.902E-11	4.727E-11			
COSINE	3800.0	4000.0	RANGE (METERS)		4500.0	4800.0				
			4200.0	4400.0						
-1.00000E+00	1.310E-13	7.844E-14	4.766E-14	2.989E-14	1.978E-14	1.252E-14				
-9.89401E-01	1.724E-13	1.039E-13	6.322E-14	3.923E-14	2.507E-14	1.498E-14				
-9.44457E-01	3.054E-13	1.595E-13	1.366E-13	6.960E-14	4.247E-14	2.324E-14				
-8.65631E-01	4.181E-13	2.559E-13	1.569E-13	9.612E-14	5.818E-14	3.133E-14				
-7.55044E-01	4.959E-13	3.028E-13	1.850E-13	1.124E-13	6.653E-14	3.492E-14				
-6.17876E-01	4.403E-13	2.456E-13	1.494E-13	9.086E-14	5.498E-14	3.039E-14				
-4.58017E-01	3.258E-13	1.970E-13	1.194E-13	7.244E-14	4.379E-14	2.502E-14				
-2.81605E-01	3.500E-13	2.121E-13	1.289E-13	7.839E-14	4.752E-14	2.757E-14				
-9.50125E+02	4.990E-13	3.056E-13	1.868E-13	1.145E-13	6.904E-14	4.069E-14				
9.50125E+02	6.825E-13	4.186E-13	2.571E-13	1.580E-13	9.675E-14	5.870E-14				
2.81605E+01	8.495E-13	5.178E-13	3.169E-13	1.942E-13	1.188E-13	7.094E-14				
4.58017E+01	6.764E-13	4.058E-13	2.435E-13	1.463E-13	8.774E-14	5.142E-14				
6.17876E+01	6.244E-13	3.640E-13	2.142E-13	1.267E-13	7.485E-14	4.290E-14				
7.55044E+01	1.622E-12	9.793E-13	5.937E-13	3.610E-13	2.200E-13	1.332E-13				
8.65631E+01	5.044E-12	3.103E-12	1.919E-12	1.186E-12	7.345E-13	4.540E-13				
9.44575E+01	1.636E-11	1.007E-11	6.219E-12	3.844E-12	2.379E-12	1.473E-12				
9.89401E+01	7.419E-11	4.558E-11	2.801E-11	1.723E-11	1.060E-11	6.524E-12				
TOTAL	2.893E-11	1.773E-11	1.088E-11	6.688E-12	4.108E-12	2.504E-12				

## 4 PI R\*2 FLUENCE AT 2400.0 METERS

## FISSION SOURCE

## (NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01--1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
1.00E 01--1.22E 01	-3.394E-13	-2.722E-13	-5.319E-14	1.358E-13	2.269E-13	8.656E-14	1.680E-14	1.903E-13	7.178E-13
8.19E 00--1.00E 01	-5.016E-11	-2.801E-12	2.842E-13	5.239E-12	6.327E-12	5.364E-12	4.990E-12	1.114E-11	2.546E-11
6.36E 00--8.19E 00	2.119E-09	2.186E-09	2.448E-09	2.887E-09	3.518E-09	4.535E-09	6.208E-09	8.757E-09	6.728E-08
4.97E 00--6.36E 00	2.906E-08	2.912E-08	2.933E-08	3.090E-08	3.396E-08	3.920E-08	4.676E-08	5.651E-08	1.245E-08
4.07E 00--4.97E 00	8.697E-08	8.745E-08	8.944E-08	9.304E-08	9.811E-08	1.048E-07	1.132E-07	1.243E-07	6.868E-08
3.01E 00--4.07E 00	1.125E-07	1.124E-07	1.122E-07	1.122E-07	1.129E-07	1.151E-07	1.197E-07	1.279E-07	1.396E-07
2.46E 00--3.01E 00	1.839E-07	1.846E-07	1.875E-07	1.934E-07	2.035E-07	2.205E-07	2.483E-07	2.930E-07	3.630E-07
2.35E 00--2.46E 00	3.225E-07	3.275E-07	3.462E-07	3.793E-07	4.260E-07	4.912E-07	5.831E-07	7.146E-07	9.023E-07
1.83E 00--2.35E 00	8.653E-07	8.708E-07	8.947E-07	9.397E-07	1.007E-06	1.102E-06	1.231E-06	1.406E-06	1.646E-06
1.11E 00--1.83E 00	1.929E-06	1.935E-06	1.962E-06	2.016E-06	2.100E-06	2.223E-06	2.391E-06	2.614E-06	2.901E-06
5.50E 01--1.11E 00	6.815E-06	6.842E-06	6.955E-06	7.169E-06	7.490E-06	7.939E-06	8.535E-06	9.312E-06	1.030E-05
1.11E 01--5.50E 01	2.665E-05	2.677E-05	2.709E-05	2.768E-05	2.855E-05	2.971E-05	3.118E-05	3.298E-05	3.513E-05
3.35E 02--1.11E 01	3.335E-04	3.341E-04	3.367E-04	3.414E-04	3.482E-04	3.571E-04	3.679E-04	3.807E-04	3.953E-04
5.83E 04--3.35E 02	3.474E-04	3.479E-04	3.500E-04	3.539E-04	3.595E-04	3.667E-04	3.755E-04	3.857E-04	3.970E-04
1.01E 04--5.83E 04	2.405E-02	2.409E-02	2.423E-02	2.449E-02	2.486E-02	2.533E-02	2.590E-02	2.657E-02	2.731E-02
2.90E 05--1.01E 04	1.138E-01	1.139E-01	1.146E-01	1.158E-01	1.174E-01	1.196E-01	1.222E-01	1.252E-01	1.285E-01
1.07E 05--2.90E 05	3.553E-01	3.558E-01	3.578E-01	3.614E-01	3.666E-01	3.732E-01	3.812E-01	3.906E-01	4.009E-01
3.06E 06--1.07E 05	1.030E 00	1.032E 00	1.037E 00	1.048E 00	1.062E 00	1.081E 00	1.104E 00	1.131E 00	1.160E 00
1.12E 06--3.06E 06	2.929E 00	2.933E 00	2.949E 00	2.978E 00	3.019E 00	3.072E 00	3.135E 00	3.209E 00	3.291E 00
4.14E 07--1.12E 06	6.773E 00	6.782E 00	6.818E 00	6.848E 00	6.977E 00	7.097E 00	7.241E 00	7.409E 00	7.594E 00
0.0	1.046E 01	1.047E 01	1.053E 01	1.062E 01	1.076E 01	1.093E 01	1.113E 01	1.136E 01	1.162E 01

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
1.22E 01--1.50E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	
1.00E 01--1.22E 01	1.491E-12	2.410E-12	4.041E-12	8.590E-12	2.114E-11	5.148E-11	1.175E-10	2.737E-10	1.582E-10
8.19E 00--1.00E 01	4.618E-11	7.204E-11	1.158E-10	2.244E-10	5.050E-10	1.165E-09	2.592E-09	6.065E-09	3.673E-09
6.36E 00--8.19E 00	1.117E-09	1.697E-09	2.715E-09	5.157E-09	1.120E-08	2.508E-08	5.503E-08	1.331E-07	8.077E-08
4.97E 00--6.36E 00	1.751E-08	2.533E-08	3.981E-08	6.942E-08	1.298E-07	2.481E-07	4.708E-07	9.493E-07	7.951E-07
4.07E 00--4.97E 00	8.487E-08	1.093E-07	1.953E-07	2.225E-07	3.470E-07	5.659E-07	8.997E-07	1.500E-06	2.103E-06
3.01E 00--4.07E 00	1.617E-07	1.913E-07	2.337E-07	2.917E-07	3.679E-07	4.623E-07	5.683E-07	6.866E-07	2.944E-06
2.46E 00--3.01E 00	4.720E-07	6.417E-07	9.056E-07	1.340E-06	2.044E-06	3.220E-06	5.255E-06	9.482E-06	1.234E-05
2.35E 00--2.46E 00	1.177E-06	1.603E-06	2.330E-06	3.663E-06	6.226E-06	1.136E-05	2.238E-05	5.410E-05	4.254E-05
1.83E 00--2.35E 00	1.975E-06	2.423E-06	3.029E-06	3.832E-06	4.874E-06	6.195E-06	7.789E-06	9.536E-06	3.191E-05
1.11E 00--1.83E 00	3.265E-06	3.720E-06	4.220E-06	4.959E-06	5.740E-06	6.584E-06	7.387E-06	8.466E-06	4.508E-05
5.50E 01--1.11E 00	1.155E-05	1.311E-05	1.501E-05	1.728E-05	1.987E-05	2.266E-05	2.530E-05	2.719E-05	1.582E-04
1.11E 01--5.50E 01	3.764E-05	4.049E-05	4.362E-05	4.694E-05	5.025E-05	5.332E-05	5.579E-05	5.731E-05	4.794E-04
3.35E 02--1.11E 01	4.114E-04	4.286E-04	4.462E-04	4.636E-04	4.797E-04	4.936E-04	5.041E-04	5.103E-04	5.146E-03
5.83E 04--3.35E 02	4.094E-04	4.223E-04	4.354E-04	4.479E-04	4.593E-04	4.690E-04	4.761E-04	4.803E-04	5.112E-03
1.01E 04--5.83E 04	2.811E-02	2.895E-02	2.979E-02	3.059E-02	3.132E-02	3.193E-02	3.238E-02	3.265E-02	3.510E-01
2.90E 05--1.01E 04	1.321E-01	1.359E-01	1.366E-01	1.432E-01	1.465E-01	1.492E-01	1.512E-01	1.524E-01	1.650E 00
1.07E 05--2.90E 05	4.120E-01	4.236E-01	4.352E-01	4.463E-01	4.563E-01	4.647E-01	4.709E-01	4.745E-01	5.144E 00
3.06E 06--1.07E 05	1.192E 00	1.225E 00	1.257E 00	1.289E 00	1.317E 00	1.341E 00	1.358E 00	1.369E 00	1.488E 01
1.12E 06--3.06E 06	3.379E 00	3.470E 00	3.561E 00	3.648E 00	3.727E 00	3.792E 00	3.841E 00	3.869E 00	4.218E 01
4.14E 07--1.12E 06	7.794E 00	8.000E 00	8.207E 00	8.403E 00	8.581E 00	8.729E 00	8.839E 00	8.902E 00	9.730E 01
0.0	1.190E 01	1.219E 01	1.248E 01	1.275E 01	1.300E 01	1.320E 01	1.335E 01	1.343E 01	1.486E 02

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 3600.0 METERS

(NEUTRONS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
1.22E 01---1.50E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
2.96E 01---3.26E 01	-2.96E-16	-2.36E-16	-3.73E-17	1.40E-16	2.16E-16	1.050E-16	8.81E-17	3.06E-16	9.13E-16
7.96E 01---1.22E 01	-7.96E-15	-5.88E-15	1.70E-16	8.12E-15	9.98E-15	9.03E-15	9.96E-15	2.25E-14	4.90E-14
1.00E 01---1.00E 01	-1.92E-13	-1.22E-13	1.06E-13	3.77E-13	4.78E-13	5.33E-13	7.28E-13	1.40E-12	2.65E-12
8.19E 00---8.19E 00	1.030E-11	1.066E-11	1.214E-11	1.467E-11	1.84E-11	2.43E-11	3.80E-11	4.83E-11	6.91E-11
6.36E 00---6.36E 00	1.618E-10	1.623E-10	1.652E-10	1.733E-10	1.899E-10	2.173E-10	2.558E-10	3.052E-10	3.670E-10
4.97E 00---4.97E 00	4.258E-10	4.279E-10	4.367E-10	4.527E-10	5.107E-10	5.224E-10	5.467E-10	6.001E-10	6.736E-10
3.01E 00---4.07E 00	5.048E-10	5.048E-10	5.045E-10	5.057E-10	5.107E-10	5.224E-10	5.467E-10	6.001E-10	6.736E-10
2.46E 00---3.01E 00	7.886E-10	7.915E-10	8.041E-10	8.297E-10	8.731E-10	9.439E-10	1.056E-09	1.232E-09	1.502E-09
2.33E 00---2.46E 00	1.338E-09	1.355E-09	1.425E-09	1.544E-09	1.710E-09	1.943E-09	2.277E-09	2.763E-09	3.460E-09
1.83E 00---2.33E 00	3.236E-09	3.259E-09	3.357E-09	3.539E-09	3.803E-09	4.182E-09	4.683E-09	5.358E-09	6.270E-09
1.11E 00---1.83E 00	7.108E-09	7.130E-09	7.228E-09	7.420E-09	7.724E-09	8.165E-09	8.769E-09	9.565E-09	1.058E-08
5.50E 01---1.11E 01	2.386E-08	2.395E-08	2.435E-08	2.509E-08	2.620E-08	2.774E-08	2.979E-08	3.244E-08	3.580E-08
1.11E 01---5.50E 01	9.004E-08	9.029E-08	9.135E-08	9.300E-08	9.616E-08	9.997E-08	1.048E-07	1.107E-07	1.177E-07
3.35E 02---1.11E 01	1.104E-06	1.106E-06	1.114E-06	1.129E-06	1.151E-06	1.180E-06	1.214E-06	1.255E-06	1.302E-06
5.83E 04---3.35E 02	1.145E-06	1.146E-06	1.153E-06	1.166E-06	1.183E-06	1.206E-06	1.234E-06	1.267E-06	1.303E-06
1.01E 04---5.83E 04	7.907E-05	7.917E-05	7.963E-05	8.045E-05	8.162E-05	8.312E-05	8.494E-05	8.705E-05	8.939E-05
2.90E 03---1.01E 04	3.734E-04	3.738E-04	3.759E-04	3.796E-04	3.845E-04	3.918E-04	4.000E-04	4.095E-04	4.201E-04
1.07E 05---2.90E 05	1.164E-03	1.166E-03	1.172E-03	1.184E-03	1.200E-03	1.221E-03	1.247E-03	1.276E-03	1.309E-03
3.06E 06---1.07E 05	3.372E-03	3.376E-03	3.395E-03	3.427E-03	3.474E-03	3.534E-03	3.607E-03	3.690E-03	3.783E-03
1.12E 06---3.06E 06	9.578E-03	9.590E-03	9.641E-03	9.732E-03	9.862E-03	1.003E-02	1.023E-02	1.046E-02	1.072E-02
4.14E 07---1.12E 06	2.213E-02	2.215E-02	2.227E-02	2.248E-02	2.277E-02	2.315E-02	2.361E-02	2.414E-02	2.472E-02
0.0 ---4.14E-07	3.413E-02	3.417E-02	3.435E-02	3.465E-02	3.508E-02	3.561E-02	3.625E-02	3.698E-02	3.779E-02
1.22E 01---1.50E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	MU= 1.0000
8.19E 00---8.19E 00	1.783E-15	2.97E-15	5.33E-15	1.159E-14	2.752E-14	6.347E-14	1.348E-13	2.615E-13	1.808E-13
6.36E 00---6.36E 00	4.458E-12	1.048E-12	2.430E-13	4.882E-13	1.085E-12	2.404E-12	5.014E-12	9.770E-12	7.016E-12
4.97E 00---4.97E 00	9.954E-11	1.491E-10	2.421E-10	4.275E-10	7.906E-10	1.098E-09	2.267E-09	4.524E-09	3.262E-09
3.01E 00---3.01E 00	7.793E-10	9.353E-10	1.167E-09	1.507E-09	1.987E-09	2.624E-09	3.381E-09	4.085E-09	4.458E-09
2.46E 00---2.46E 00	1.914E-09	2.545E-09	3.519E-09	5.042E-09	7.435E-09	1.121E-08	1.710E-08	2.614E-08	4.419E-08
1.83E 00---1.83E 00	4.800E-09	6.083E-09	8.878E-09	1.418E-08	2.465E-08	4.604E-08	9.173E-08	2.065E-07	1.676E-07
1.11E 00---1.83E 00	7.513E-09	9.193E-09	1.142E-08	1.430E-08	1.788E-08	2.212E-08	2.669E-08	3.062E-08	1.175E-07
5.50E 01---1.11E 01	4.600E-08	4.516E-08	5.139E-08	5.867E-08	6.677E-08	7.517E-08	8.273E-08	8.783E-08	5.405E-07
3.35E 02---1.11E 01	1.353E-06	1.407E-06	1.448E-06	1.552E-06	1.654E-06	1.747E-06	1.821E-06	1.866E-06	1.896E-06
1.01E 04---3.35E 02	1.342E-06	1.382E-06	1.423E-06	1.462E-06	1.506E-06	1.560E-06	1.641E-06	1.660E-06	1.691E-05
2.90E 05---1.01E 04	5.192E-05	9.454E-05	9.716E-05	9.966E-05	1.019E-04	1.038E-04	1.050E-04	1.060E-04	1.147E-03
1.07E 05---2.90E 05	4.314E-04	4.432E-04	4.549E-04	4.661E-04	4.762E-04	4.846E-04	4.908E-04	4.944E-04	5.385E-03
3.06E 06---1.07E 05	1.344E-03	1.380E-03	1.416E-03	1.451E-03	1.482E-03	1.508E-03	1.527E-03	1.538E-03	1.677E-02
4.14E 07---1.12E 06	3.882E-03	3.985E-03	4.088E-03	4.184E-03	4.273E-03	4.347E-03	4.401E-03	4.432E-03	4.846E-02
0.0 ---4.14E-07	1.100E-02	1.128E-02	1.157E-02	1.184E-02	1.208E-02	1.228E-02	1.243E-02	1.252E-02	1.373E-01
	2.535E-02	2.599E-02	2.664E-02	2.725E-02	2.780E-02	2.826E-02	2.859E-02	2.879E-02	3.164E-01
	3.666E-02	3.957E-02	4.048E-02	4.134E-02	4.210E-02	4.272E-02	4.317E-02	4.343E-02	4.830E-01

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 4800.0 METERS

ENERGY		ANGLE 1		ANGLE 2		ANGLE 3		ANGLE 4		ANGLE 5		ANGLE 6		ANGLE 7		ANGLE 8		ANGLE 9	
GROUP (MEV)		MU=1.0000		MU=0.5894		MU=0.9446		MU=0.8656		MU=0.7550		MU=0.6179		MU=0.4580		MU=0.2816		MU=0.0950	
1.22E-01	1.50E-01	-2.413E-19	-1.916E-19	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20	-2.618E-20
1.00E-01	1.22E-01	-1.139E-17	-8.547E-18	6.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16
8.19E-01	1.00E-01	-6.326E-16	-4.289E-16	6.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16	2.444E-16
6.36E-00	8.19E-01	3.633E-14	3.800E-14	4.474E-14	5.668E-14	7.524E-14	8.308E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13
4.97E-00	6.36E-00	6.715E-13	6.750E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13	6.936E-13
4.07E-00	4.97E-00	1.554E-12	1.665E-12	1.711E-12	1.796E-12	1.934E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12	2.025E-12
3.01E-00	4.07E-00	1.917E-12	1.920E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12	1.934E-12
2.46E-00	3.01E-00	2.791E-12	2.806E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12	2.872E-12
2.35E-00	2.46E-00	4.467E-12	4.528E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12	4.778E-12
1.83E-00	2.35E-00	1.015E-11	1.025E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11	1.068E-11
1.11E-00	1.83E-00	2.220E-11	2.230E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11	2.278E-11
5.50E-01	1.11E-00	7.009E-11	7.047E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11	7.211E-11
1.11E-01	5.50E-01	2.621E-10	2.631E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10	2.674E-10
3.35E-02	1.11E-01	3.196E-09	3.203E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09	3.235E-09
5.83E-04	3.35E-02	3.320E-09	3.326E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09	3.352E-09
1.01E-04	5.83E-04	2.280E-07	2.284E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07	2.300E-07
2.90E-05	1.01E-04	1.073E-06	1.074E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06	1.082E-06
1.07E-05	2.90E-05	3.333E-06	3.339E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06	3.363E-06
3.06E-06	1.07E-05	9.618E-06	9.634E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06	9.702E-06
1.12E-06	3.06E-06	2.725E-05	2.730E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05	2.742E-05
4.14E-07	1.12E-06	6.283E-05	6.293E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05	6.335E-05
0.0	4.14E-07	9.692E-05	9.707E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05	9.770E-05

## ENERGY

GROUP (MEV)

MU=0.0950

MU=0.2816

MU=0.4580

MU=0.6179

MU=0.7550

MU=0.8656

MU=0.9446

MU=1.0000

MU=1.0000

MU=1.0000

MU=1.0000

MU=1.0000

MU=1.0000

MU=1.0000

MU=1.0000

MU=1.0000

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MU=1.0000

MU=1.0000

MU=1.0000

## 4 PI R\*2 FLUENCE AT 2400.0 METERS

## FISSION SOURCE

## (GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=-1.0000	MU=-0.9894	MU=-0.9446	MU=-0.8656	MU=-0.7550	MU=-0.6179	MU=-0.4580	MU=-0.2816	MU=-0.0950
6.50E 00---8.00E 00	-2.365E-08	-1.808E-08	-2.948E-10	1.378E-08	2.565E-08	1.510E-08	1.481E-09	4.470E-10	1.185E-08
6.50E 00---8.00E 00	-9.864E-08	-7.824E-08	-1.312E-08	3.793E-08	7.948E-08	3.469E-08	-1.128E-08	-2.005E-08	1.720E-08
5.00E 00---6.50E 00	-4.738E-07	-3.556E-07	4.183E-09	3.722E-07	5.230E-07	3.342E-07	6.503E-08	4.503E-08	3.060E-07
4.00E 00---5.00E 00	-1.140E-06	-9.259E-07	-2.402E-07	2.990E-07	6.913E-07	1.711E-07	-3.223E-07	-3.982E-07	1.461E-07
3.00E 00---4.00E 00	-9.938E-07	-7.934E-07	-1.548E-07	3.467E-07	7.739E-07	1.682E-07	-2.527E-07	-2.428E-07	1.828E-07
2.50E 00---3.00E 00	-5.047E-07	-3.983E-07	-6.549E-08	1.779E-07	2.914E-07	-6.009E-10	-1.716E-07	-6.302E-08	2.102E-07
2.00E 00---2.50E 00	4.193E-07	3.701E-07	1.692E-07	-3.912E-08	-1.460E-07	-6.881E-08	1.255E-07	3.818E-07	3.900E-07
1.66E 00---2.00E 00	1.432E-06	1.213E-06	3.044E-07	-3.535E-07	-5.529E-07	-1.133E-07	4.195E-07	8.940E-07	2.289E-07
1.33E 00---1.66E 00	2.034E-06	1.702E-06	4.758E-07	-5.646E-07	-7.491E-07	-3.058E-08	6.914E-07	1.137E-06	-1.145E-08
1.00E 00---1.33E 00	1.251E-06	1.023E-06	2.153E-07	-3.855E-07	-3.384E-07	1.469E-07	7.476E-07	4.981E-07	7.025E-08
8.00E 01---1.00E 01	-1.189E-06	-9.974E-07	-3.319E-07	3.332E-07	8.653E-07	5.225E-07	-1.478E-07	-7.102E-08	1.762E-06
6.00E 01---8.00E 01	-2.666E-06	-2.134E-06	-4.186E-07	1.010E-06	1.690E-06	4.746E-07	2.458E-07	2.599E-06	9.847E-06
4.00E 01---6.00E 01	1.088E-05	1.071E-05	1.020E-05	1.008E-05	1.165E-05	1.613E-05	2.439E-05	3.612E-05	4.971E-05
3.00E 01---4.00E 01	1.263E-05	1.348E-05	1.735E-05	2.523E-05	3.714E-05	5.167E-05	6.560E-05	7.572E-05	8.020E-05
2.00E 01---3.00E 01	1.401E-04	1.400E-04	1.397E-04	1.381E-04	1.347E-04	1.296E-04	1.240E-04	1.199E-04	1.187E-04
1.00E 01---2.00E 01	3.211E-04	3.219E-04	3.250E-04	3.307E-04	3.386E-04	3.487E-04	3.611E-04	3.758E-04	3.927E-04
5.00E 02---1.00E 01	9.932E-04	9.948E-04	1.002E-03	1.014E-03	1.032E-03	1.056E-03	1.086E-03	1.121E-03	1.161E-03
2.00E 02---5.00E 02	3.023E-04	3.025E-04	3.035E-04	3.051E-04	3.074E-04	3.105E-04	3.142E-04	3.185E-04	3.232E-04

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4280	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	8.342E-06
6.50E 00---8.00E 00	3.822E-08	6.264E-08	7.227E-08	1.013E-07	3.416E-07	1.568E-06	6.827E-06	2.416E-05	1.513E-05
5.00E 00---6.50E 00	1.032E-07	1.678E-07	1.493E-07	1.273E-07	5.742E-07	3.074E-06	1.277E-05	4.206E-05	1.077E-04
4.00E 00---5.00E 00	8.965E-07	1.351E-06	1.395E-06	1.646E-06	5.359E-06	2.309E-05	8.832E-05	2.820E-04	7.078E-05
3.00E 00---4.00E 00	6.916E-07	1.201E-06	3.401E-07	2.459E-07	2.765E-06	1.930E-05	6.733E-05	1.665E-04	8.559E-05
2.50E 00---3.00E 00	9.685E-07	1.180E-06	4.729E-07	8.024E-07	6.709E-06	2.844E-05	7.912E-05	1.656E-04	8.913E-05
2.00E 00---2.50E 00	5.707E-07	4.595E-07	3.120E-07	2.405E-06	1.163E-05	3.522E-05	7.948E-05	1.397E-04	1.019E-04
1.66E 00---2.00E 00	2.529E-08	-4.367E-08	1.111E-06	6.309E-06	1.920E-05	4.363E-05	8.097E-05	1.237E-04	1.178E-04
1.33E 00---1.66E 00	-5.510E-07	-2.959E-08	2.011E-06	1.235E-07	2.854E-05	5.185E-05	7.956E-05	1.050E-04	1.398E-04
1.00E 00---1.33E 00	-6.575E-07	9.159E-07	7.461E-06	2.072E-07	3.918E-05	5.912E-05	7.600E-05	8.684E-05	1.768E-04
8.00E 01---1.00E 01	1.105E-06	6.080E-06	1.714E-05	3.449E-05	5.115E-05	6.440E-05	6.953E-05	6.848E-05	2.283E-04
6.00E 01---8.00E 01	7.451E-06	1.749E-05	3.127E-05	4.615E-05	5.836E-05	6.458E-05	6.426E-05	6.080E-05	3.067E-04
4.00E 01---6.00E 01	2.160E-05	3.538E-05	4.764E-05	5.586E-05	5.996E-05	6.210E-05	6.409E-05	6.630E-05	6.502E-04
3.00E 01---4.00E 01	6.258E-05	7.227E-05	7.774E-05	8.020E-05	8.260E-05	8.772E-05	9.566E-05	1.029E-04	9.098E-04
2.00E 01---3.00E 01	8.040E-05	7.987E-05	8.233E-05	8.893E-05	9.738E-05	1.037E-04	1.057E-04	1.048E-04	1.643E-03
1.00E 01---2.00E 01	1.209E-04	1.255E-04	1.312E-04	1.369E-04	1.426E-04	1.485E-04	1.542E-04	1.584E-04	5.437E-04
5.00E 02---1.00E 01	4.119E-04	4.330E-04	4.554E-04	4.782E-04	5.000E-04	5.194E-04	5.346E-04	5.437E-04	1.511E-02
2.00E 02---5.00E 02	1.206E-03	1.254E-03	1.304E-03	1.353E-03	1.400E-03	1.440E-03	1.470E-03	1.488E-03	4.112E-03
	3.284E-04	3.338E-04	3.392E-04	3.444E-04	3.490E-04	3.529E-04	3.558E-04	3.575E-04	

## FISSION SOURCE

4 PI R\*2 FLUENCE AT 3600.C METERS

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)									
ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU= 0.0000	MU= -0.9894	MU= -0.9446	MU= -0.8656	MU= -0.7550	MU= -0.6179	MU= -0.4580	MU= -0.2816	MU= -0.0950
6.50E 00---8.00E 00	-2.748E-09	-2.261E-09	-6.759E-10	6.242E-10	1.524E-09	3.023E-10	-9.527E-10	-1.275E-09	-2.135E-11
5.00E 00---6.50E 00	-9.497E-09	-7.812E-09	-2.326E-09	2.184E-09	5.183E-09	8.879E-10	-3.401E-09	-4.371E-09	6.124E-11
3.50E 00---5.00E 00	-3.954E-08	-3.242E-08	-9.195E-09	1.013E-08	2.227E-08	3.759E-09	-1.423E-08	-1.763E-08	2.132E-09
2.00E 00---3.50E 00	-7.614E-08	-5.754E-08	-1.648E-08	1.756E-08	3.743E-08	3.884E-09	-2.709E-08	-3.097E-08	5.004E-09
1.50E 00---2.00E 00	-6.230E-08	-5.075E-08	-1.333E-08	1.713E-08	3.241E-08	6.429E-10	-2.540E-08	-2.410E-08	3.797E-09
1.00E 00---1.50E 00	-2.680E-08	-2.130E-08	-3.941E-09	8.954E-09	1.080E-08	-3.114E-09	-1.287E-08	-5.284E-09	1.087E-08
0.50E 00---1.00E 00	2.881E-08	2.479E-08	9.200E-09	-6.861E-09	-1.424E-08	-7.567E-09	6.093E-09	2.247E-08	1.196E-08
0.00E 00---0.50E 00	8.740E-08	7.319E-08	2.104E-08	-2.624E-08	-3.804E-08	-8.440E-09	2.742E-08	5.136E-08	-2.839E-09
0.00E 01---0.00E 02	1.173E-07	9.704E-08	2.434E-08	-3.829E-08	-4.793E-08	-2.699E-09	4.234E-08	5.842E-08	-2.652E-08
0.00E 02---0.00E 03	6.267E-08	5.012E-08	7.177E-09	-2.477E-08	-2.051E-08	7.524E-09	3.472E-08	6.726E-09	-3.030E-08
0.00E 03---0.00E 04	-8.130E-08	-6.865E-08	-2.479E-08	1.926E-08	4.747E-08	1.559E-08	-3.041E-08	-3.950E-08	5.641E-08
0.00E 04---0.00E 05	-1.583E-07	-1.281E-07	-2.975E-08	5.288E-08	7.113E-08	4.992E-09	-2.638E-08	9.659E-08	4.876E-07
0.00E 05---0.00E 06	5.142E-07	5.012E-07	4.610E-07	4.374E-07	5.061E-07	7.340E-07	1.160E-06	1.754E-06	2.415E-06
0.00E 06---0.00E 07	5.285E-07	5.728E-07	7.758E-07	1.185E-06	1.797E-06	2.525E-06	3.193E-06	3.632E-06	3.760E-06
0.00E 07---0.00E 08	6.774E-06	6.770E-06	6.735E-06	6.627E-06	6.410E-06	6.099E-06	5.767E-06	5.516E-06	5.424E-06
0.00E 08---0.00E 09	1.483E-05	1.486E-05	1.501E-05	1.526E-05	1.562E-05	1.607E-05	1.662E-05	1.725E-05	1.798E-05
0.00E 09---0.00E 10	4.549E-05	4.556E-05	4.586E-05	4.640E-05	4.719E-05	4.822E-05	4.948E-05	5.097E-05	5.266E-05
0.00E 10---0.00E 11	1.372E-07	1.373E-05	1.377E-05	1.384E-05	1.394E-05	1.407E-05	1.423E-05	1.441E-05	1.461E-05

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU= 0.0950	MU= 0.2816	MU= 0.4580	MU= 0.6179	MU= 0.7550	MU= 0.8656	MU= 0.9446	MU= 0.9894	5.114E-07
6.50E 00---8.00E 00	1.408E-09	2.862E-09	-1.293E-10	-4.980E-09	-2.181E-08	3.537E-08	3.391E-07	2.113E-06	8.357E-07
5.00E 00---6.50E 00	4.938E-09	9.376E-09	-2.192E-09	1.907E-08	-9.152E-08	8.368E-08	6.508E-07	3.203E-06	4.091E-06
3.50E 00---5.00E 00	2.360E-08	4.162E-08	-9.905E-09	-7.754E-08	-1.961E-08	4.621E-07	3.210E-06	1.523E-05	3.419E-06
2.00E 00---3.50E 00	4.080E-08	6.265E-08	-4.201E-08	-1.475E-07	-1.272E-07	7.411E-07	3.520E-06	9.930E-06	3.883E-06
1.50E 00---2.00E 00	4.943E-08	4.264E-08	-6.111E-08	-8.988E-08	1.52E-07	1.281E-06	4.010E-06	8.725E-06	4.311E-06
1.00E 00---1.50E 00	2.503E-08	-9.485E-09	-4.562E-08	3.908E-08	5.049E-07	1.775E-06	4.137E-06	7.212E-06	4.891E-06
0.50E 00---1.00E 00	-2.225E-08	-4.945E-08	3.581E-09	2.657E-07	9.534E-07	2.219E-06	4.069E-06	5.996E-06	5.636E-06
0.00E 00---0.50E 00	-7.034E-08	-5.992E-08	1.134E-07	6.250E-07	1.478E-06	2.609E-06	3.820E-06	4.789E-06	6.644E-06
0.00E 01---0.00E 02	-8.816E-08	3.541E-08	3.502E-07	1.092E-06	2.022E-06	2.899E-06	3.470E-06	3.690E-06	8.352E-06
0.00E 02---0.00E 03	1.665E-08	2.840E-07	8.846E-07	1.727E-06	2.551E-06	3.027E-06	3.006E-06	2.715E-06	1.071E-05
0.00E 03---0.00E 04	3.674E-07	8.985E-07	1.590E-06	2.280E-06	2.764E-06	2.901E-06	2.714E-06	2.435E-06	1.429E-05
0.00E 04---0.00E 05	1.107E-06	1.790E-06	2.331E-06	2.613E-06	2.678E-06	2.582E-06	2.750E-06	2.862E-06	4.458E-06
0.00E 05---0.00E 06	3.000E-06	3.385E-06	3.537E-06	3.543E-06	3.574E-06	3.772E-06	4.128E-06	4.458E-06	2.971E-05
0.00E 06---0.00E 07	3.671E-06	3.570E-06	3.652E-06	3.951E-06	4.319E-06	4.545E-06	4.537E-06	4.413E-06	4.162E-05
0.00E 07---0.00E 08	5.499E-06	5.684E-06	5.899E-06	6.037E-06	6.287E-06	6.501E-06	6.729E-06	6.904E-06	7.511E-05
0.00E 08---0.00E 09	1.879E-05	1.966E-05	2.058E-05	2.149E-05	2.236E-05	2.312E-05	2.370E-05	2.405E-05	2.354E-04
0.00E 09---0.00E 10	5.453E-05	5.652E-05	5.856E-05	6.056E-05	6.241E-05	6.400E-05	6.519E-05	6.589E-05	6.823E-04
0.00E 10---0.00E 11	1.482E-05	1.505E-05	1.527E-05	1.548E-05	1.567E-05	1.582E-05	1.594E-05	1.601E-05	1.856E-04

## 4 PI R\*2 FLUENCE AT 4800.0 METERS

## FISSION SOURCE

(GAMMAS/MEV/STERADIAN/SOURCE NEUTRON)

ENERGY GROUP (MEV)	ANGLE 1	ANGLE 2	ANGLE 3	ANGLE 4	ANGLE 5	ANGLE 6	ANGLE 7	ANGLE 8	ANGLE 9
8.00E 00---1.00E 01	MU=1.0000	MU=0.9894	MU=0.9446	MU=0.8656	MU=0.7550	MU=0.6179	MU=0.4580	MU=0.2816	MU=0.0950
6.50E 00---8.00E 00	-1.288E-10	-1.065E-10	-3.078E-11	4.068E-11	6.60E-11	1.032E-11	-6.803E-11	-8.859E-11	5.743E-12
5.00E 00---6.50E 00	-4.309E-10	-3.557E-10	-1.014E-10	1.376E-10	2.204E-10	2.989E-11	-2.281E-10	-2.852E-10	3.433E-11
3.00E 00---4.50E 00	-1.431E-09	-1.179E-09	-3.305E-10	4.640E-10	7.250E-10	8.581E-11	-7.551E-10	-9.051E-10	1.507E-10
2.00E 00---3.00E 00	-2.418E-09	-1.988E-09	-5.398E-10	8.008E-10	1.197E-09	8.755E-11	-1.175E-09	-1.421E-09	7.103E-11
1.00E 00---2.00E 00	-2.113E-09	-1.723E-09	-4.715E-10	7.403E-10	9.943E-10	-4.704E-11	-1.175E-09	-1.035E-09	4.210E-10
0.50E 00---1.00E 00	-7.616E-10	-5.984E-10	-3.833E-10	3.838E-10	-7.060E-10	-2.175E-10	-5.061E-10	-6.524E-11	6.796E-10
0.25E 00---0.50E 00	1.332E-09	1.133E-09	3.833E-10	-3.838E-10	-7.060E-10	-2.175E-10	4.849E-10	1.285E-09	4.753E-10
0.125E 00---0.25E 00	3.538E-09	2.941E-09	7.912E-10	-1.181E-09	-1.635E-09	-2.349E-10	1.590E-09	2.528E-09	-4.707E-10
0.0625E 00---0.125E 00	4.591E-09	3.770E-09	8.709E-10	-1.641E-09	-1.960E-09	-4.273E-11	2.288E-09	2.307E-09	-1.526E-09
0.03125E 00---0.0625E 00	2.253E-09	1.776E-09	1.857E-10	-9.709E-10	-7.007E-10	5.431E-10	1.504E-09	-5.055E-11	-1.760E-09
0.015625E 00---0.03125E 00	5.585E-09	-3.018E-09	-1.028E-09	1.076E-09	2.159E-09	5.959E-10	-1.769E-09	-2.114E-09	3.222E-09
0.0078125E 00---0.015625E 00	-6.524E-09	-5.271E-09	-1.134E-09	2.518E-09	2.944E-09	-6.297E-11	-1.332E-09	5.224E-09	2.490E-08
0.00390625E 00---0.0078125E 00	2.247E-08	2.189E-08	2.006E-08	1.921E-08	2.304E-08	3.489E-08	5.650E-08	8.570E-08	1.169E-07
0.001953125E 00---0.00390625E 00	1.930E-08	2.152E-08	3.166E-08	5.182E-08	8.190E-08	1.177E-07	1.502E-07	1.708E-07	1.756E-07
0.0009765625E 00---0.001953125E 00	2.892E-07	2.895E-07	2.898E-07	2.898E-07	2.822E-07	2.724E-07	2.610E-07	2.522E-07	2.497E-07
0.00048828125E 00---0.0009765625E 00	5.932E-07	5.957E-07	6.062E-07	6.247E-07	6.504E-07	6.820E-07	7.177E-07	7.562E-07	7.965E-07
0.000244140625E 00---0.00048828125E 00	1.763E-06	1.768E-06	1.790E-06	1.830E-06	1.885E-06	1.956E-06	2.037E-06	2.128E-06	2.224E-06
0.0001220703125E 00---0.000244140625E 00	5.596E-07	5.602E-07	5.629E-07	5.676E-07	5.741E-07	5.822E-07	5.917E-07	6.022E-07	6.128E-07

ENERGY GROUP (MEV)	ANGLE 10	ANGLE 11	ANGLE 12	ANGLE 13	ANGLE 14	ANGLE 15	ANGLE 16	ANGLE 17	SCALAR FLUX
8.00E 00---1.00E 01	MU=0.0950	MU=0.2816	MU=0.4580	MU=0.6179	MU=0.7550	MU=0.8656	MU=0.9446	MU=0.9894	3.368E-03
6.50E 00---8.00E 00	1.206E-10	2.222E-10	-6.963E-11	-5.697E-10	-5.609E-10	1.322E-09	1.776E-08	1.566E-07	5.042E-08
5.00E 00---6.50E 00	4.034E-10	6.903E-10	-3.210E-10	-1.831E-09	-1.497E-09	4.267E-09	3.694E-08	2.094E-07	1.758E-07
3.00E 00---4.50E 00	1.363E-09	2.153E-09	-1.326E-09	-6.006E-09	-3.787E-09	1.730E-08	1.312E-07	7.098E-07	1.645E-07
2.00E 00---3.00E 00	2.833E-09	3.002E-09	-3.031E-09	-9.243E-09	-1.355E-09	3.627E-08	1.732E-07	4.879E-07	1.831E-07
1.00E 00---2.00E 00	2.568E-09	1.394E-09	-3.711E-09	-5.759E-09	7.828E-09	6.444E-08	1.943E-07	4.006E-07	2.044E-07
0.50E 00---1.00E 00	1.053E-09	-1.103E-09	-2.960E-09	1.789E-09	2.596E-08	8.181E-08	1.967E-07	3.258E-07	2.309E-07
0.25E 00---0.50E 00	-1.582E-09	3.057E-09	4.426E-11	1.425E-08	4.835E-08	1.077E-07	1.882E-07	2.649E-07	2.654E-07
0.125E 00---0.25E 00	-4.049E-09	-3.364E-09	6.180E-09	3.246E-08	7.331E-08	1.238E-07	1.727E-07	2.075E-07	3.119E-07
0.0625E 00---0.125E 00	-4.742E-09	2.308E-11	1.899E-08	5.485E-08	9.803E-08	1.345E-07	1.536E-07	1.567E-07	3.910E-07
0.03125E 00---0.0625E 00	9.991E-10	1.500E-08	4.457E-08	8.409E-08	1.202E-07	1.374E-07	1.310E-07	1.141E-07	5.004E-07
0.015625E 00---0.03125E 00	1.906E-08	4.495E-08	7.726E-08	1.076E-07	1.269E-07	1.297E-07	1.187E-07	1.051E-07	6.664E-07
0.0078125E 00---0.015625E 00	5.480E-08	8.649E-08	1.099E-07	1.202E-07	1.204E-07	1.194E-07	1.225E-07	1.280E-07	1.391E-06
0.00390625E 00---0.0078125E 00	1.432E-07	1.592E-07	1.642E-07	1.629E-07	1.634E-07	1.720E-07	1.878E-07	2.023E-07	1.922E-06
0.001953125E 00---0.00390625E 00	1.703E-07	1.650E-07	1.686E-07	1.822E-07	1.984E-07	2.073E-07	2.054E-07	1.988E-07	3.412E-06
0.0009765625E 00---0.001953125E 00	2.542E-07	2.630E-07	2.725E-07	2.808E-07	2.886E-07	2.975E-07	3.074E-07	3.150E-07	1.036E-05
0.00048828125E 00---0.0009765625E 00	8.386E-07	8.819E-07	9.255E-07	9.679E-07	1.007E-06	1.041E-06	1.066E-06	1.081E-06	2.877E-05
0.000244140625E 00---0.00048828125E 00	2.326E-06	2.428E-06	2.530E-06	2.626E-06	2.713E-06	2.786E-06	2.841E-06	2.872E-06	7.793E-06
0.0001220703125E 00---0.000244140625E 00	6.250E-07	6.367E-07	6.480E-07	6.586E-07	6.678E-07	6.754E-07	6.809E-07	6.841E-07	

## FISSION SOURCE

4 PI R\*\*2 HENDERSLN DGSE (NEUTRONS)  
(CM\*\*2 KAUSTERAUJIAN/SOURCE NEUTRON)

CUSINE	1800.C	2100.0	RANGE (METERS)		3000.C	3300.C	3600.C
			2400.0	2700.0			
-1.00000E-00	5.328E-13	1.339E-13	3.307E-14	8.086E-15	1.966E-15	4.770E-16	1.156E-16
-9.89401E-01	5.343E-13	1.343E-13	3.318E-14	8.111E-15	1.972E-15	4.785E-16	1.160E-16
-9.44575E-01	5.414E-13	1.361E-13	3.362E-14	8.220E-15	1.999E-15	4.849E-16	1.176E-16
-8.65831E-01	5.547E-13	1.395E-13	3.445E-14	8.424E-15	2.049E-15	4.970E-16	1.205E-16
-7.55044E-01	5.747E-13	1.446E-13	3.570E-14	8.730E-15	2.123E-15	5.151E-16	1.249E-16
-6.17876E-01	6.026E-13	1.516E-13	3.744E-14	9.156E-15	2.227E-15	5.464E-16	1.310E-16
-4.58017E-01	6.394E-13	1.608E-13	3.973E-14	9.718E-15	2.364E-15	5.736E-16	1.391E-16
-2.81605E-01	6.871E-13	1.729E-13	4.270E-14	1.044E-14	2.541E-15	6.166E-16	1.495E-16
-9.50125E-02	7.477E-13	1.881E-13	4.646E-14	1.136E-14	2.765E-15	6.710E-16	1.627E-16
9.50125E-02	8.242E-13	2.073E-13	5.119E-14	1.252E-14	3.046E-15	7.394E-16	1.794E-16
2.81605E-01	9.205E-13	2.314E-13	5.714E-14	1.397E-14	3.400E-15	8.254E-16	2.003E-16
4.58017E-01	1.042E-12	2.616E-13	6.464E-14	1.581E-14	3.847E-15	9.342E-16	2.268E-16
7.55044E-01	1.198E-12	3.006E-13	7.418E-14	1.814E-14	4.416E-15	1.075E-15	2.605E-16
8.65831E-01	1.399E-12	3.504E-13	8.642E-14	2.113E-14	5.145E-15	1.251E-15	3.039E-16
9.44575E-01	1.663E-12	4.158E-13	1.024E-13	2.503E-14	6.095E-15	1.482E-15	3.604E-16
9.89401E-01	2.030E-12	5.049E-13	1.240E-13	3.026E-14	7.361E-15	1.789E-15	4.349E-16
	2.722E-12	6.611E-13	1.597E-13	3.850E-14	9.279E-15	2.238E-15	5.407E-16
TOTAL	1.163E-11	2.915E-12	7.187E-13	1.756E-13	4.272E-14	1.037E-14	2.517E-15

CUSINE	3800.0	4000.C	RANGE (METERS)		4600.0	4800.0
			4200.0	4400.0		
-1.50000E-00	4.497E-17	1.750E-17	6.812E-18	2.650E-18	1.017E-18	3.469E-19
-9.89401E-01	4.511E-17	1.755E-17	6.833E-18	2.658E-18	1.021E-18	3.484E-19
-9.44575E-01	4.572E-17	1.779E-17	6.925E-18	2.694E-18	1.035E-18	3.551E-19
-8.65831E-01	4.586E-17	1.823E-17	7.098E-18	2.762E-18	1.063E-18	3.674E-19
-7.55044E-01	4.858E-17	1.890E-17	7.359E-18	2.864E-18	1.104E-18	3.861E-19
-6.17876E-01	5.095E-17	1.983E-17	7.721E-18	3.015E-18	1.160E-18	4.119E-19
-4.58017E-01	5.410E-17	2.105E-17	8.199E-18	3.192E-18	1.235E-18	4.453E-19
-2.81605E-01	5.817E-17	2.264E-17	8.816E-18	3.434E-18	1.330E-18	4.871E-19
-9.50125E-02	6.231E-17	2.464E-17	9.598E-18	3.739E-18	1.450E-18	5.377E-19
9.50125E-02	6.979E-17	2.717E-17	1.058E-17	4.124E-18	1.602E-18	5.996E-19
2.81605E-01	7.794E-17	3.035E-17	1.182E-17	4.609E-18	1.792E-18	6.763E-19
4.58017E-01	8.827E-17	3.438E-17	1.340E-17	5.226E-18	2.034E-18	7.729E-19
6.17876E-01	1.015E-16	3.954E-17	1.542E-17	6.016E-18	2.344E-18	8.960E-19
7.55044E-01	1.184E-16	4.617E-17	1.802E-17	7.036E-18	2.745E-18	1.054E-18
8.65831E-01	1.405E-16	5.461E-17	2.140E-17	8.363E-18	3.266E-18	1.260E-18
9.44575E-01	1.695E-16	6.612E-17	2.582E-17	1.009E-17	3.942E-18	1.525E-18
9.89401E-01	2.100E-16	8.162E-17	3.176E-17	1.237E-17	4.822E-18	1.865E-18
TOTAL	9.797E-16	3.816E-16	1.487E-16	5.798E-17	2.253E-17	8.427E-18



## FISSION SOURCE

4 PI R\*\*2 SNYDER-NEUFELD JOSE (NEUTRONS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	1800.0	2100.0	2400.0	RANGE (METERS)		3000.0	3300.0	3600.0
				2700.0	2700.0			
-1.00000E-00	1.443E-12	3.631E-13	8.935E-14	2.173E-14	5.248E-15	1.264E-15	3.040E-16	
-9.89401E-01	1.447E-12	3.640E-13	8.937E-14	2.178E-14	5.260E-15	1.267E-15	3.048E-16	
-9.44575E-01	1.462E-12	3.677E-13	9.050E-14	2.200E-14	5.315E-15	1.280E-15	3.080E-16	
-8.65631E-01	1.490E-12	3.747E-13	9.222E-14	2.242E-14	5.416E-15	1.304E-15	3.138E-16	
-7.50044E-01	1.531E-12	3.851E-13	9.477E-14	2.304E-14	5.567E-15	1.341E-15	3.226E-16	
-6.17876E-01	1.587E-12	3.992E-13	9.825E-14	2.389E-14	5.772E-15	1.390E-15	3.340E-16	
-4.58017E-01	1.660E-12	4.175E-13	1.028E-13	2.499E-14	6.038E-15	1.454E-15	3.500E-16	
-2.81605E-01	1.752E-12	4.407E-13	1.085E-13	2.638E-14	6.374E-15	1.535E-15	3.698E-16	
-9.50125E-02	1.866E-12	4.692E-13	1.155E-13	2.809E-14	6.788E-15	1.635E-15	3.938E-16	
9.50125E-02	2.008E-12	5.043E-13	1.241E-13	3.018E-14	7.295E-15	1.758E-15	4.234E-16	
2.81605E-01	2.177E-12	5.470E-13	1.346E-13	3.273E-14	7.913E-15	1.907E-15	4.595E-16	
4.58017E-01	2.386E-12	5.991E-13	1.474E-13	3.585E-14	8.667E-15	2.090E-15	5.037E-16	
6.17876E-01	2.643E-12	6.630E-13	1.631E-13	3.967E-14	9.594E-15	2.315E-15	5.582E-16	
7.50044E-01	2.962E-12	7.420E-13	1.824E-13	4.438E-14	1.074E-14	2.593E-15	6.258E-16	
8.65631E-01	3.366E-12	8.417E-13	2.067E-13	5.030E-14	1.218E-14	2.942E-15	7.108E-16	
9.44575E-01	3.903E-12	9.723E-13	2.384E-13	5.794E-14	1.402E-14	3.389E-15	8.192E-16	
9.89401E-01	4.872E-12	1.192E-12	2.886E-13	6.955E-14	1.673E-14	4.023E-15	9.686E-16	
TOTAL	2.699E-11	6.770E-12	1.664E-12	4.047E-13	9.783E-14	2.359E-14	5.684E-15	

COSINE	3800.0	4000.0	RANGE (METERS)		4600.0	4800.0
			4200.0	4400.0		
-1.00000E-00	1.176E-16	4.555E-17	1.764E-17	6.831E-18	2.614E-18	8.952E-19
-9.89401E-01	1.179E-16	4.566E-17	1.769E-17	6.848E-18	2.621E-18	8.983E-19
-9.44575E-01	1.192E-16	4.613E-17	1.787E-17	6.920E-18	2.650E-18	9.113E-19
-8.65631E-01	1.214E-16	4.702E-17	1.822E-17	7.054E-18	2.704E-18	9.355E-19
-7.50044E-01	1.248E-16	4.834E-17	1.873E-17	7.253E-18	2.783E-18	9.714E-19
-6.17876E-01	1.295E-16	5.113E-17	1.942E-17	7.525E-18	2.891E-18	1.020E-18
-4.58017E-01	1.355E-16	5.246E-17	2.033E-17	7.877E-18	3.031E-18	1.082E-18
-2.81605E-01	1.431E-16	5.541E-17	2.147E-17	8.323E-18	3.206E-18	1.159E-18
-9.50125E-02	1.524E-16	5.904E-17	2.289E-17	8.873E-18	3.422E-18	1.249E-18
9.50125E-02	1.639E-16	6.351E-17	2.462E-17	9.548E-18	3.687E-18	1.358E-18
2.81605E-01	1.780E-16	6.896E-17	2.674E-17	1.037E-17	4.010E-18	1.488E-18
4.58017E-01	1.932E-16	7.565E-17	2.935E-17	1.139E-17	4.409E-18	1.648E-18
6.17876E-01	2.164E-16	8.392E-17	3.258E-17	1.265E-17	4.902E-18	1.844E-18
7.50044E-01	2.427E-16	9.421E-17	3.659E-17	1.422E-17	5.519E-18	2.088E-18
8.65631E-01	2.759E-16	1.072E-16	4.166E-17	1.621E-17	6.297E-18	2.395E-18
9.44575E-01	3.181E-16	1.236E-16	4.607E-17	1.871E-17	7.276E-18	2.779E-18
9.89401E-01	3.752E-16	1.455E-16	5.648E-17	2.195E-17	8.522E-18	3.261E-18
TOTAL	2.202E-15	8.535E-16	3.311E-16	1.285E-16	4.964E-17	1.827E-17

## FISSION SOURCE

$^{235}\text{Pu}$  TISSUE KERMA (NEUTRONS)  
(CM\*\*2 EKGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	1800.0	<100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.00000E-00	6.437E-11	1.618E-11	3.591E-12	9.746E-13	2.364E-13	5.722E-14	1.384E-14
-9.89401E-01	6.456E-11	1.623E-11	4.002E-12	9.768E-13	2.371E-13	5.739E-14	1.388E-14
-9.44575E-01	6.537E-11	1.643E-11	4.053E-12	9.862E-13	2.401E-13	5.812E-14	1.406E-14
-8.05631E-01	6.489E-11	1.682E-11	4.148E-12	1.012E-12	2.457E-13	5.948E-14	1.439E-14
-7.55046E-01	6.416E-11	1.739E-11	4.289E-12	1.047E-12	2.541E-13	6.153E-14	1.489E-14
-6.17876E-01	7.231E-11	1.818E-11	4.485E-12	1.095E-12	2.658E-13	6.438E-14	1.557E-14
-4.58017E-01	7.645E-11	1.922E-11	4.742E-12	1.158E-12	2.810E-13	6.805E-14	1.647E-14
-2.81605E-01	8.177E-11	2.056E-11	5.072E-12	1.238E-12	3.006E-13	7.280E-14	1.762E-14
-9.50125E-02	8.847E-11	2.242E-11	5.478E-12	1.340E-12	3.252E-13	7.677E-14	1.906E-14
9.50125E-02	9.686E-11	2.434E-11	6.004E-12	1.466E-12	3.560E-13	8.622E-14	2.087E-14
2.81605E-01	1.073E-10	2.696E-11	6.646E-12	1.623E-12	3.942E-13	9.549E-14	2.312E-14
4.58017E-01	1.204E-10	3.023E-11	7.453E-12	1.820E-12	4.420E-13	1.071E-13	2.594E-14
6.17876E-01	1.369E-10	3.434E-11	8.465E-12	2.067E-12	5.021E-13	1.217E-13	2.951E-14
7.55046E-01	1.580E-10	3.937E-11	9.748E-12	2.380E-12	5.785E-13	1.403E-13	3.404E-14
8.05631E-01	1.855E-10	4.636E-11	1.141E-11	2.765E-12	6.770E-13	1.645E-13	3.990E-14
9.44575E-01	2.231E-10	5.522E-11	1.363E-11	3.322E-12	8.071E-13	1.959E-13	4.755E-14
9.89401E-01	2.935E-10	7.142E-11	1.726E-11	4.162E-12	1.003E-12	2.417E-13	5.834E-14
TOTAL	1.346E-09	3.374E-10	8.310E-11	2.028E-11	4.923E-12	1.193E-12	2.889E-13

## RANGE (METERS)

4600.0

4200.0

4400.0

4600.0

4800.0

5000.0

5200.0

5400.0

5600.0

5800.0

6000.0

6200.0

6400.0

6600.0

6800.0

7000.0

7200.0

7400.0

7600.0

7800.0

8000.0

8200.0

8400.0

8600.0

8800.0

9000.0

9200.0

9400.0

9600.0

9800.0

10000.0

10200.0

10400.0

10600.0

10800.0

11000.0

11200.0

11400.0

11600.0

11800.0

12000.0

12200.0

12400.0

12600.0

12800.0

13000.0

13200.0

13400.0

13600.0

13800.0

14000.0

14200.0

14400.0

14600.0

14800.0

15000.0

15200.0

15400.0

15600.0

15800.0

16000.0

16200.0

16400.0

16600.0

16800.0

17000.0

17200.0

17400.0

17600.0

17800.0

18000.0

18200.0

18400.0

18600.0

18800.0

19000.0

19200.0

19400.0

19600.0

19800.0

20000.0

20200.0

20400.0

20600.0

20800.0

21000.0

21200.0

21400.0

21600.0

21800.0

22000.0

22200.0

22400.0

22600.0

22800.0

23000.0

23200.0

23400.0

23600.0

23800.0

24000.0

24200.0

24400.0

24600.0

24800.0

25000.0

25200.0

25400.0

25600.0

25800.0

26000.0

26200.0

26400.0

26600.0

26800.0

27000.0

27200.0

27400.0

27600.0

27800.0

28000.0

28200.0

28400.0

28600.0

28800.0

29000.0

29200.0

29400.0

29600.0

29800.0

30000.0

30200.0

30400.0

30600.0

30800.0

31000.0

31200.0

31400.0

31600.0

31800.0

32000.0

32200.0

32400.0

32600.0

32800.0

33000.0

33200.0

33400.0

33600.0

33800.0

34000.0

34200.0

34400.0

34600.0

34800.0

35000.0

35200.0

35400.0

35600.0

35800.0

36000.0

36200.0

36400.0

36600.0

36800.0

37000.0

37200.0

37400.0

37600.0

37800.0

38000.0

38200.0

38400.0

38600.0

38800.0

39000.0

39200.0

39400.0

39600.0

39800.0

40000.0

40200.0

40400.0

40600.0

40800.0

41000.0

41200.0

41400.0

41600.0

41800.0

42000.0

42200.0

42400.0

42600.0

42800.0

43000.0

43200.0

43400.0

43600.0

43800.0

44000.0

44200.0

44400.0

44600.0

44800.0

45000.0

45200.0

45400.0

45600.0

45800.0

46000.0

46200.0

46400.0

46600.0

46800.0

47000.0

47200.0

47400.0

47600.0

47800.0

48000.0

48200.0

48400.0

48600.0

48800.0

49000.0

49200.0

49400.0

49600.0

49800.0

50000.0

50200.0

50400.0

50600.0

50800.0

51000.0

51200.0

51400.0

51600.0

51800.0

52000.0

52200.0

52400.0

52600.0

52800.0

53000.0

53200.0

53400.0

53600.0

53800.0

54000.0

54200.0

54400.0

54600.0

54800.0

55000.0

55200.0

55400.0

55600.0

55800.0

56000.0

56200.0

56400.0

56600.0

56800.0

57000.0

57200.0

57400.0

4 PL N*2 MID-PHANTOM DOSE (NEUTRONS) (CR*2 RAD/STERADIAN/SOURCE NEUTRON)				FISSION SOURCE			
COSINE	1800.0	2100.0	2400.0	RANGE (METERS)		3000.0	3600.0
				2700.0	3000.0		
-1.00000E-00	2.310E-13	5.824E-14	1.436E-14	3.495E-15	8.453E-16	2.038E-16	4.914E-17
-9.89401E-01	2.315E-13	5.837E-14	1.439E-14	3.503E-15	8.472E-16	2.043E-16	4.922E-17
-9.44575E-01	2.337E-13	5.893E-14	1.453E-14	3.537E-15	8.555E-16	2.063E-16	4.971E-17
-8.65631E-01	2.378E-13	5.997E-14	1.478E-14	3.600E-15	8.708E-16	2.100E-16	5.061E-17
-7.55044E-01	2.439E-13	6.151E-14	1.517E-14	3.694E-15	8.937E-16	2.156E-16	5.196E-17
-6.17876E-01	2.523E-13	6.363E-14	1.569E-14	3.823E-15	9.251E-16	2.232E-16	5.382E-17
-4.58017E-01	2.631E-13	6.639E-14	1.638E-14	3.991E-15	9.661E-16	2.332E-16	5.625E-17
-2.81605E-01	2.770E-13	6.989E-14	1.725E-14	4.204E-15	1.018E-15	2.459E-16	5.935E-17
-9.50125E-02	2.942E-13	7.425E-14	1.833E-14	4.470E-15	1.083E-15	2.618E-16	6.322E-17
9.50125E-02	3.156E-13	7.966E-14	1.967E-14	4.801E-15	1.164E-15	2.816E-16	6.807E-17
2.81605E-01	3.423E-13	8.643E-14	2.136E-14	5.217E-15	1.267E-15	3.067E-16	7.423E-17
4.58017E-01	3.765E-13	9.508E-14	2.352E-14	5.752E-15	1.399E-15	3.393E-16	8.227E-17
6.17876E-01	4.215E-13	1.065E-13	2.638E-14	6.465E-15	1.575E-15	3.831E-16	9.313E-17
7.55044E-01	4.831E-13	1.221E-13	3.031E-14	7.444E-15	1.819E-15	4.437E-16	1.082E-16
8.65631E-01	5.716E-13	1.445E-13	3.591E-14	8.841E-15	2.167E-15	5.302E-16	1.298E-16
9.44575E-01	7.076E-13	1.783E-13	4.427E-14	1.091E-14	2.676E-15	6.558E-16	1.608E-16
9.89401E-01	1.001E-12	2.450E-13	5.960E-14	1.447E-14	3.511E-15	8.528E-16	2.076E-16
TOTAL	4.381E-12	1.105E-12	2.730E-13	6.675E-14	1.623E-14	3.935E-15	9.543E-16

COSINE	3800.0	4000.0	RANGE (METERS)		4600.0	4800.0
			4200.0	4400.0		
-1.00000E-00	1.902E-17	7.374E-18	2.860E-18	1.109E-18	4.250E-19	1.459E-19
-9.89401E-01	1.907E-17	7.391E-18	2.867E-18	1.111E-18	4.260E-19	1.464E-19
-9.44575E-01	1.926E-17	7.444E-18	2.895E-18	1.123E-18	4.305E-19	1.484E-19
-8.65631E-01	1.961E-17	7.601E-18	2.949E-18	1.143E-18	4.389E-19	1.522E-19
-7.55044E-01	2.013E-17	7.806E-18	3.029E-18	1.175E-18	4.515E-19	1.579E-19
-6.17876E-01	2.086E-17	8.089E-18	3.139E-18	1.218E-18	4.688E-19	1.657E-19
-4.58017E-01	2.181E-17	8.458E-18	3.283E-18	1.275E-18	4.914E-19	1.758E-19
-2.81605E-01	2.302E-17	8.931E-18	3.468E-18	1.347E-18	5.202E-19	1.864E-19
-9.50125E-02	2.453E-17	9.523E-18	3.700E-18	1.438E-18	5.561E-19	2.035E-19
9.50125E-02	2.643E-17	1.027E-17	3.992E-18	1.553E-18	6.014E-19	2.222E-19
2.81605E-01	2.884E-17	1.122E-17	4.365E-18	1.699E-18	6.594E-19	2.458E-19
4.58017E-01	3.201E-17	1.246E-17	4.856E-18	1.894E-18	7.362E-19	2.767E-19
6.17876E-01	3.630E-17	1.416E-17	5.527E-18	2.159E-18	8.416E-19	3.189E-19
7.55044E-01	4.227E-17	1.653E-17	6.466E-18	2.532E-18	9.897E-19	3.781E-19
8.65631E-01	5.080E-17	1.990E-17	7.806E-18	3.063E-18	1.201E-18	4.623E-19
9.44575E-01	6.302E-17	2.472E-17	9.705E-18	3.813E-18	1.497E-18	5.797E-19
9.89401E-01	8.101E-17	3.165E-17	1.238E-17	4.849E-18	1.899E-18	7.356E-19
TOTAL	3.713E-16	1.446E-16	5.033E-17	2.196E-17	8.527E-18	3.164E-18

## FISSION SOURCE

4 PI R\*\*2 CONCRETE KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

CUSINE	RANGE (METERS)						RANGE (METERS)					
	1800.0	2100.0	2400.0	2700.0	3000.0	3300.0	3600.0	3900.0	4200.0	4500.0	4800.0	5100.0
-1.00000E-00	7.184E-12	1.806E-12	4.458E-13	1.689E-13	2.647E-14	6.416E-15	1.554E-15					
-9.89401E-01	7.206E-12	1.812E-12	4.471E-13	1.693E-13	2.655E-14	6.435E-15	1.559E-15					
-9.44575E-01	7.299E-12	1.835E-12	4.530E-13	1.716E-13	2.690E-14	6.520E-15	1.579E-15					
-9.55631E-01	7.474E-12	1.879E-12	4.639E-13	1.744E-13	2.755E-14	6.678E-15	1.618E-15					
-7.55044E-01	7.736E-12	1.946E-12	4.803E-13	1.817E-13	2.852E-14	6.915E-15	1.675E-15					
-6.17875E-01	8.101E-12	2.037E-12	5.038E-13	1.929E-13	2.988E-14	7.243E-15	1.755E-15					
-4.58017E-01	8.582E-12	2.158E-12	5.329E-13	2.021E-13	3.166E-14	7.676E-15	1.860E-15					
-2.81605E-01	9.204E-12	2.315E-12	5.715E-13	2.139E-13	3.396E-14	8.234E-15	1.996E-15					
-9.50125E-02	9.990E-12	2.512E-12	6.202E-13	2.316E-13	3.685E-14	8.938E-15	2.166E-15					
2.81605E-01	1.098E-11	2.760E-12	6.813E-13	2.512E-13	4.049E-14	9.821E-15	2.381E-15					
2.81605E-01	1.222E-11	3.070E-12	7.577E-13	2.852E-13	4.563E-14	1.093E-14	2.644E-15					
4.58017E-01	1.378E-11	3.460E-12	8.517E-13	3.208E-13	5.075E-14	1.232E-14	2.988E-15					
6.17875E-01	1.576E-11	3.953E-12	9.751E-13	3.684E-13	5.799E-14	1.408E-14	3.418E-15					
7.55044E-01	1.829E-11	4.583E-12	1.130E-12	4.276E-13	6.723E-14	1.634E-14	3.970E-15					
8.65631E-01	2.162E-11	5.405E-12	1.331E-12	5.253E-13	7.920E-14	1.926E-14	4.684E-15					
9.44575E-01	2.618E-11	6.513E-12	1.600E-12	6.393E-13	9.496E-14	2.308E-14	5.614E-15					
9.89401E-01	3.466E-11	8.419E-12	2.034E-12	7.490E-13	1.182E-13	2.852E-14	6.895E-15					
TOTAL	1.537E-10	3.853E-11	9.493E-12	3.320E-12	5.640E-13	1.369E-13	3.320E-14					

CUSINE	RANGE (METERS)						RANGE (METERS)					
	3800.0	4000.0	4200.0	4400.0	4600.0	4800.0	5000.0	5200.0	5400.0	5600.0	5800.0	6000.0
-1.00000E-00	6.041E-16	2.349E-16	9.142E-17	3.554E-17	1.364E-17	4.654E-18						
-9.89401E-01	6.060E-16	2.357E-16	9.169E-17	3.565E-17	1.369E-17	4.674E-18						
-9.44575E-01	6.139E-16	2.388E-16	9.290E-17	3.612E-17	1.388E-17	4.760E-18						
-8.65631E-01	6.288E-16	2.445E-16	9.516E-17	3.701E-17	1.423E-17	4.922E-18						
-7.55044E-01	6.512E-16	2.532E-16	9.855E-17	3.834E-17	1.477E-17	5.165E-18						
-6.17875E-01	6.822E-16	2.653E-16	1.033E-16	4.018E-17	1.550E-17	5.500E-18						
-4.58017E-01	7.231E-16	2.813E-16	1.095E-16	4.261E-17	1.647E-17	5.934E-18						
-2.81605E-01	7.759E-16	3.018E-16	1.175E-16	4.574E-17	1.771E-17	6.476E-18						
-9.50125E-02	8.424E-16	3.277E-16	1.276E-16	4.968E-17	1.926E-17	7.129E-18						
2.81605E-01	9.259E-16	3.603E-16	1.403E-16	5.464E-17	2.121E-17	7.928E-18						
4.58017E-01	1.031E-15	4.011E-16	1.562E-16	6.087E-17	2.366E-17	8.914E-18						
6.17875E-01	1.163E-15	4.527E-16	1.764E-16	6.877E-17	2.676E-17	1.015E-17						
7.55044E-01	1.331E-15	5.185E-16	2.022E-16	7.887E-17	3.073E-17	1.173E-17						
8.65631E-01	1.547E-15	6.030E-16	2.535E-16	9.187E-17	3.584E-17	1.375E-17						
9.44575E-01	1.826E-15	7.125E-16	2.782E-16	1.087E-16	4.248E-17	1.638E-17						
9.89401E-01	2.189E-15	8.542E-16	3.336E-16	1.304E-16	5.099E-17	1.972E-17						
TOTAL	2.675E-15	1.042E-15	4.059E-16	1.583E-16	6.172E-17	2.388E-17						

## FISSION SOURCE

<sup>4</sup>PI R\*\*2 AIR KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)						
	1800.0	2100.0	2400.0	2700.0	3000.0	3300.0	3600.0
-1.00000E+00	9.589E-12	2.421E-12	5.977E-13	1.457E-13	3.528E-14	8.516E-15	2.055E-15
-9.89401E-01	9.611E-12	2.427E-12	5.990E-13	1.460E-13	3.536E-14	8.536E-15	2.059E-15
-9.44575E-01	9.704E-12	2.450E-12	6.049E-13	1.475E-13	3.571E-14	8.621E-15	2.080E-15
-8.65631E-01	9.677E-12	2.494E-12	6.158E-13	1.501E-13	3.636E-14	8.778E-15	2.118E-15
-7.55044E-01	1.014E-11	2.560E-12	6.320E-13	1.541E-13	3.733E-14	9.015E-15	2.176E-15
-6.17876E-01	1.049E-11	2.650E-12	6.544E-13	1.596E-13	3.867E-14	9.342E-15	2.255E-15
-4.58017E-01	1.096E-11	2.768E-12	6.837E-13	1.668E-13	4.043E-14	9.770E-15	2.359E-15
-2.81605E-01	1.156E-11	2.919E-12	7.212E-13	1.760E-13	4.268E-14	1.032E-14	2.493E-15
-9.50125E-02	1.230E-11	3.109E-12	7.682E-13	1.876E-13	4.551E-14	1.101E-14	2.662E-15
9.50125E-02	1.324E-11	3.346E-12	8.271E-13	2.021E-13	4.905E-14	1.188E-14	2.874E-15
2.81605E-01	1.442E-11	3.644E-12	9.012E-13	2.203E-13	5.353E-14	1.297E-14	3.148E-15
4.58017E-01	1.593E-11	4.025E-12	9.960E-13	2.437E-13	5.929E-14	1.439E-14	3.491E-15
6.17876E-01	1.791E-11	4.523E-12	1.120E-12	2.744E-13	6.686E-14	1.626E-14	3.952E-15
7.55044E-01	2.056E-11	5.189E-12	1.266E-12	3.154E-13	7.700E-14	1.876E-14	4.573E-15
8.65631E-01	2.426E-11	6.110E-12	1.514E-12	3.717E-13	9.089E-14	2.219E-14	5.421E-15
9.44575E-01	2.969E-11	7.439E-12	1.838E-12	4.508E-13	1.102E-13	2.692E-14	6.579E-15
9.89401E-01	4.061E-11	9.875E-12	2.390E-12	5.774E-13	1.396E-13	3.379E-14	8.198E-15
TOTAL	1.839E-10	4.635E-11	1.145E-11	2.800E-12	6.807E-13	1.651E-13	4.004E-14

## FISSION SOURCE

COSINE	3800.0	4000.0
-1.00000E-00	7.965E-16	3.090E-16
-9.89401E-01	7.983E-16	3.097E-16
-9.44575E-01	8.063E-16	3.128E-16
-8.65631E-01	8.212E-16	3.186E-16
-7.55044E-01	8.436E-16	3.273E-16
-6.17876E-01	8.746E-16	3.394E-16
-4.58017E-01	9.153E-16	3.553E-16
-2.81605E-01	9.676E-16	3.757E-16
-9.50125E-02	1.033E-15	4.015E-16
9.50125E-02	1.116E-15	4.340E-16
2.81605E-01	1.222E-15	4.754E-16
4.58017E-01	1.359E-15	5.292E-16
6.17876E-01	1.540E-15	6.008E-16
7.55044E-01	1.785E-15	6.975E-16
8.65631E-01	2.120E-15	8.295E-16
9.44575E-01	2.574E-15	1.008E-15
9.89401E-01	3.195E-15	1.246E-15
TOTAL	1.558E-14	6.066E-15

## FISSION SOURCE

4.01 R\*\*2 IONIZING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERG/GRAM/STEARLIAN/SOURCE NEUTRON)

COSINE	1800.0	2100.0	2400.0	RANGE (METERS) 2700.0	3000.0	3300.0	3600.0
-1.00000E-00	4.746E-13	1.197E-13	2.968E-14	7.293E-15	1.784E-15	4.353E-16	1.062E-16
-9.89401E-01	4.762E-13	1.201E-13	2.978E-14	7.319E-15	1.790E-15	4.369E-16	1.066E-16
-9.44575E-01	4.833E-13	1.219E-13	3.023E-14	7.431E-15	1.818E-15	4.437E-16	1.083E-16
-8.65631E-01	4.966E-13	1.253E-13	3.108E-14	7.640E-15	1.869E-15	4.564E-16	1.114E-16
-7.55044E-01	5.165E-13	1.304E-13	3.235E-14	7.956E-15	1.947E-15	4.756E-16	1.161E-16
-6.17876E-01	5.445E-13	1.375E-13	3.414E-14	8.401E-15	2.057E-15	5.027E-16	1.228E-16
-4.58017E-01	5.822E-13	1.471E-13	3.655E-14	9.003E-15	2.206E-15	5.394E-16	1.319E-16
-2.81605E-01	6.320E-13	1.598E-13	3.973E-14	9.792E-15	2.402E-15	5.879E-16	1.439E-16
-9.50125E-02	6.960E-13	1.761E-13	4.302E-14	1.081E-14	2.654E-15	6.504E-16	1.593E-16
9.50125E-02	7.777E-13	1.969E-13	4.906E-14	1.212E-14	2.979E-15	7.312E-16	1.794E-16
2.81605E-01	8.831E-13	2.239E-13	5.588E-14	1.383E-14	3.407E-15	8.382E-16	2.062E-16
4.58017E-01	1.024E-12	2.603E-13	6.515E-14	1.617E-14	3.999E-15	9.875E-16	2.438E-16
6.17876E-01	1.224E-12	3.121E-13	7.846E-14	1.958E-14	4.866E-15	1.208E-15	3.000E-16
7.55044E-01	1.520E-12	3.895E-13	9.849E-14	2.473E-14	6.189E-15	1.547E-15	3.867E-16
8.65631E-01	1.982E-12	5.104E-13	1.298E-13	3.279E-14	8.261E-15	2.078E-15	5.224E-16
9.44575E-01	2.749E-12	7.075E-13	1.801E-13	4.501E-14	1.152E-14	2.905E-15	7.326E-16
9.89401E-01	4.543E-12	1.123E-12	2.772E-13	6.857E-14	1.695E-14	4.221E-15	1.051E-15
TOTAL	1.206E-11	3.064E-12	7.675E-13	1.909E-13	4.732E-14	1.172E-14	2.901E-15

## 4800.0

## RANGE (METERS)

## COSINE

COSINE	3800.0	4000.0	4200.0	RANGE (METERS) 4400.0	4600.0	4800.0
-1.00000E-00	4.148E-17	1.621E-17	6.336E-18	2.475E-18	9.535E-19	3.252E-19
-9.89401E-01	4.163E-17	1.627E-17	6.363E-18	2.484E-18	9.572E-19	3.268E-19
-9.44575E-01	4.228E-17	1.652E-17	6.461E-18	2.524E-18	9.735E-19	3.341E-19
-8.65631E-01	4.351E-17	1.701E-17	6.650E-18	2.599E-18	1.004E-18	3.477E-19
-7.55044E-01	4.537E-17	1.774E-17	6.939E-18	2.713E-18	1.050E-18	3.686E-19
-6.17876E-01	4.801E-17	1.878E-17	7.348E-18	2.875E-18	1.116E-18	3.981E-19
-4.58017E-01	5.157E-17	2.018E-17	7.902E-18	3.094E-18	1.204E-18	4.378E-19
-2.81605E-01	5.630E-17	2.205E-17	8.636E-18	3.385E-18	1.320E-18	4.889E-19
-9.50125E-02	6.241E-17	2.446E-17	9.591E-18	3.762E-18	1.470E-18	5.525E-19
9.50125E-02	7.035E-17	2.760E-17	1.084E-17	4.256E-18	1.667E-18	6.334E-19
2.81605E-01	8.698E-17	3.182E-17	1.252E-17	4.924E-18	1.934E-18	7.419E-19
4.58017E-01	9.602E-17	3.783E-17	1.492E-17	5.866E-18	2.319E-18	8.978E-19
6.17876E-01	1.186E-16	4.889E-17	1.859E-17	7.348E-18	2.907E-18	1.136E-18
7.55044E-01	1.555E-16	6.098E-17	2.424E-17	9.638E-18	3.831E-18	1.509E-18
8.65631E-01	2.084E-16	8.312E-17	3.316E-17	1.324E-17	5.281E-18	2.094E-18
9.44575E-01	2.925E-16	1.168E-16	4.667E-17	1.865E-17	7.451E-18	2.964E-18
9.89401E-01	4.165E-16	1.652E-16	6.559E-17	2.607E-17	1.036E-17	4.109E-18
TOTAL	1.144E-15	4.518E-16	1.785E-16	7.052E-17	2.760E-17	1.066E-17

## FISSION SOURCE

4 PI 8\*\*2 MCN ICM/LING SILICON KERMA (NEUTRONS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

COSINE	RANGE (METERS)				
	1800.0	2100.0	2400.0	2700.0	3000.0
-1.00000E-00	7.031E-13	1.772E-13	4.375E-14	1.070E-14	2.606E-15
-9.89401E-01	7.074E-13	1.777E-13	4.390E-14	1.074E-14	2.615E-15
-9.44575E-01	7.175E-13	1.803E-13	4.503E-14	1.090E-14	2.652E-15
-8.65631E-01	7.365E-13	1.851E-13	4.571E-14	1.119E-14	2.723E-15
-7.55044E-01	7.651E-13	1.923E-13	4.749E-14	1.162E-14	2.825E-15
-6.17876E-01	8.049E-13	2.023E-13	4.997E-14	1.223E-14	2.977E-15
-4.58017E-01	8.576E-13	2.156E-13	5.325E-14	1.303E-14	3.172E-15
-2.81605E-01	9.261E-13	2.328E-13	5.750E-14	1.407E-14	3.426E-15
-9.50125E-02	1.013E-12	2.546E-13	6.290E-14	1.539E-14	3.746E-15
9.50125E-02	1.124E-12	2.823E-13	6.970E-14	1.705E-14	4.151E-15
2.81605E-01	1.263E-12	3.170E-13	7.826E-14	1.914E-14	4.659E-15
4.58017E-01	1.428E-12	3.609E-13	8.905E-14	2.178E-14	5.300E-15
6.17876E-01	1.662E-12	4.166E-13	1.027E-13	2.512E-14	6.113E-15
7.55044E-01	1.949E-12	4.878E-13	1.202E-13	2.938E-14	7.151E-15
8.65631E-01	2.326E-12	5.807E-13	1.429E-13	3.492E-14	8.498E-15
9.44575E-01	2.843E-12	7.067E-13	1.735E-13	4.231E-14	1.029E-14
9.89401E-01	3.817E-12	9.273E-13	2.241E-13	5.402E-14	1.302E-14
TOTAL	1.593E-11	3.990E-12	9.835E-13	2.404E-13	5.848E-14

COSINE	RANGE (METERS)				
	3800.0	4000.0	4200.0	4400.0	4600.0
-1.00000E-00	5.978E-17	2.328E-17	9.667E-18	3.529E-18	1.355E-18
-9.89401E-01	5.998E-17	2.335E-17	9.697E-18	3.541E-18	1.360E-18
-9.44575E-01	6.085E-17	2.369E-17	9.829E-18	3.592E-18	1.381E-18
-8.65631E-01	6.247E-17	2.432E-17	9.975E-18	3.689E-18	1.420E-18
-7.55044E-01	6.491E-17	2.527E-17	9.945E-18	3.834E-18	1.478E-18
-6.17876E-01	6.830E-17	2.659E-17	1.036E-17	4.035E-18	1.559E-18
-4.58017E-01	7.279E-17	2.834E-17	1.104E-17	4.301E-18	1.665E-18
-2.81605E-01	7.860E-17	3.060E-17	1.192E-17	4.646E-18	1.801E-18
-9.50125E-02	8.595E-17	3.347E-17	1.304E-17	5.082E-18	1.972E-18
9.50125E-02	9.523E-17	3.708E-17	1.445E-17	5.632E-18	2.188E-18
2.81605E-01	1.069E-16	4.163E-17	1.622E-17	6.325E-18	2.460E-18
4.58017E-01	1.216E-16	4.738E-17	1.847E-17	7.203E-18	2.804E-18
6.17876E-01	1.404E-16	5.471E-17	2.133E-17	8.325E-18	3.244E-18
7.55044E-01	1.645E-16	6.412E-17	2.501E-17	9.766E-18	3.810E-18
8.65631E-01	1.957E-16	7.632E-17	2.979E-17	1.164E-17	4.545E-18
9.44575E-01	2.367E-16	9.231E-17	3.603E-17	1.407E-17	5.494E-18
9.89401E-01	2.944E-16	1.144E-16	4.451E-17	1.734E-17	6.754E-18
TOTAL	1.342E-15	5.228E-16	2.038E-16	7.947E-17	3.089E-17

1.157E-17

## FISSION SOURCE

4 PI R\*\*2 HENDERSOON DOSE (GAMMAS)  
(CM\*\*2 RAD/STERADIAN/SOURCE NEUTRON)

COSINE	18CG.C	210C.C	RANGE (METERS)		300C.C	330C.C	360C.C
			2400.0	2700.0			
-1.0000E-00	3.651E-14	9.958E-15	3.282E-15	1.098E-15	3.746E-16	1.294E-16	4.508E-17
-9.694E-01	3.558E-14	1.170E-14	4.199E-15	1.565E-15	6.605E-16	2.427E-16	9.990E-17
-9.44575E-01	4.262E-14	1.680E-14	7.014E-15	3.034E-15	1.341E-15	6.035E-16	2.751E-16
-8.65631E-01	5.310E-14	2.208E-14	9.525E-15	4.243E-15	1.949E-15	9.049E-16	4.228E-16
-7.55044E-01	6.021E-14	2.582E-14	1.149E-14	5.284E-15	2.442E-15	1.137E-15	5.308E-16
-6.17876E-01	5.947E-14	2.401E-14	1.003E-14	4.367E-15	1.957E-15	8.893E-16	4.080E-16
-4.58617E-01	5.863E-14	2.229E-14	8.886E-15	3.707E-15	1.593E-15	7.042E-16	3.153E-16
-2.81605E-01	8.361E-14	3.259E-14	1.612E-14	4.225E-15	1.827E-15	8.085E-16	3.638E-16
-9.50125E-02	1.134E-13	4.615E-14	1.954E-14	8.660E-15	3.954E-15	1.802E-15	8.419E-16
2.81605E-01	1.515E-13	6.126E-14	2.598E-14	1.142E-14	5.154E-15	2.363E-15	1.098E-15
4.58017E-01	2.051E-13	7.899E-14	3.114E-14	1.267E-14	5.253E-15	2.232E-15	9.706E-16
6.17876E-01	3.146E-13	1.182E-13	4.531E-14	1.781E-14	7.175E-15	2.927E-15	1.216E-15
7.55044E-01	5.909E-13	2.346E-13	9.332E-14	3.793E-14	1.595E-14	6.944E-15	3.130E-15
8.65631E-01	1.281E-12	5.623E-13	2.434E-13	1.056E-13	4.634E-14	2.060E-14	9.232E-15
9.44575E-01	2.869E-12	1.398E-12	6.606E-13	3.063E-13	1.411E-13	6.486E-14	2.987E-14
9.894C1E-01	5.970E-12	3.219E-12	1.665E-12	8.369E-13	4.123E-13	2.604E-13	9.645E-14
TOTAL	4.587E-12	2.092E-12	9.544E-13	4.371E-13	2.012E-13	9.296E-14	4.315E-14

COSINE	3800.0	4000.0	RANGE (METERS)		4600.0	4800.0
			4200.0	4400.0		
-1.0000E-00	2.243E-17	1.135E-17	6.121E-18	4.004E-18	3.585E-18	3.367E-18
-9.89401E-01	5.604E-17	3.187E-17	1.856E-17	1.140E-17	7.746E-18	5.287E-18
-9.44575E-01	1.638E-16	9.784E-17	5.868E-17	3.539E-17	2.137E-17	1.170E-17
-8.65631E-01	2.551E-16	1.541E-16	9.320E-17	5.634E-17	3.366E-17	1.796E-17
-7.55044E-01	3.189E-16	1.914E-16	1.153E-16	6.908E-17	4.008E-17	2.074E-17
-6.17876E-01	2.440E-16	1.465E-16	8.767E-17	5.241E-17	3.133E-17	1.724E-17
-4.58017E-01	1.859E-16	1.099E-16	6.512E-17	3.867E-17	2.299E-17	1.329E-17
-2.81605E-01	2.141E-16	1.270E-16	7.552E-17	4.503E-17	2.687E-17	1.580E-17
-9.50125E-02	3.433E-16	2.066E-16	1.245E-16	7.511E-17	4.528E-17	2.629E-17
2.81605E-01	5.086E-16	3.076E-16	1.862E-16	1.128E-16	6.829E-17	4.158E-17
4.58017E-01	6.607E-16	3.980E-16	2.384E-16	1.437E-16	8.665E-17	5.151E-17
6.17876E-01	5.633E-16	3.293E-16	1.946E-16	1.150E-16	6.785E-17	3.964E-17
7.55044E-01	8.846E-16	3.880E-16	2.221E-16	1.278E-16	7.386E-17	4.233E-17
8.65631E-01	1.840E-15	1.085E-15	6.411E-16	3.804E-16	2.263E-16	1.346E-16
9.44575E-01	5.473E-15	3.266E-15	1.958E-15	1.178E-15	7.111E-16	4.298E-16
9.894C1E-01	1.782E-14	1.066E-14	6.384E-15	3.344E-15	2.307E-15	1.391E-15
TOTAL	2.592E-14	1.559E-14	9.391E-15	5.665E-15	3.419E-15	2.057E-15



4 PI R\*\*2 CONCRETE KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

FISSION SOURCE

COSINE	1800.0	2100.0	2400.0	RANGE (METERS)		3000.0	3300.0	3600.0
				2700.0				
-1.00000E-00	4.948E-12	1.897E-12	7.495E-13	3.053E-13	1.279E-13	5.473E-14	5.473E-14	2.384E-14
-9.89401E-01	5.251E-12	2.069E-12	8.400E-13	3.513E-13	1.508E-13	6.594E-14	6.594E-14	2.926E-14
-9.44575E-01	6.149E-12	2.573E-12	1.119E-12	4.968E-13	2.235E-13	1.017E-13	1.017E-13	4.664E-14
-8.65631E-01	7.200E-12	3.106E-12	1.371E-12	6.178E-13	2.843E-13	1.318E-13	1.318E-13	6.141E-14
-7.55044E-01	7.935E-12	3.486E-12	1.570E-12	7.235E-13	3.344E-13	1.554E-13	1.554E-13	7.240E-14
-6.17876E-01	7.913E-12	3.334E-12	1.433E-12	6.382E-13	2.888E-13	1.320E-13	1.320E-13	6.073E-14
-4.58017E-01	7.889E-12	3.190E-12	1.337E-12	5.783E-13	2.557E-13	1.147E-13	1.147E-13	5.203E-14
-2.81605E-01	8.666E-12	3.486E-12	1.470E-12	6.340E-13	2.804E-13	1.259E-13	1.259E-13	5.719E-14
-9.50125E-02	1.046E-11	4.247E-12	1.827E-12	8.071E-13	3.648E-13	1.691E-13	1.691E-13	7.810E-14
9.50125E-02	1.346E-11	5.616E-12	2.419E-12	1.080E-12	4.936E-13	2.255E-13	2.255E-13	1.051E-13
2.81605E-01	1.729E-11	7.131E-12	3.065E-12	1.358E-12	6.148E-13	2.822E-13	2.822E-13	1.310E-13
4.58017E-01	2.261E-11	8.897E-12	3.582E-12	1.484E-12	6.260E-13	2.977E-13	2.977E-13	1.186E-13
6.17876E-01	3.339E-11	1.274E-11	4.960E-12	1.980E-12	8.091E-13	3.350E-13	3.350E-13	1.410E-13
7.55044E-01	6.053E-11	2.414E-11	9.631E-12	3.927E-12	1.655E-12	7.215E-13	7.215E-13	3.252E-13
8.65631E-01	1.286E-10	5.633E-11	2.434E-11	1.054E-11	4.618E-12	2.050E-12	2.050E-12	9.176E-13
9.44575E-01	2.861E-10	1.392E-10	6.564E-11	3.043E-11	1.400E-11	6.433E-12	6.433E-12	2.961E-12
9.89401E-01	5.958E-10	3.214E-10	1.664E-10	8.373E-11	4.130E-11	2.010E-11	2.010E-11	9.689E-12
TOTAL	.811E-10	2.197E-10	1.003E-10	4.594E-11	2.114E-11	9.773E-12	9.773E-12	4.536E-12

COSINE	3800.0	4000.0	RANGE (METERS)		4600.0	4800.0
			4200.0	4400.0		
-1.00000E-00	1.381E-14	8.061E-15	4.761E-15	2.883E-15	1.819E-15	1.078E-15
-9.89401E-01	1.714E-14	1.010E-14	5.995E-15	3.617E-15	2.233E-15	1.270E-15
-9.44575E-01	2.783E-14	1.665E-14	9.984E-15	6.005E-15	3.591E-15	1.914E-15
-8.65631E-01	3.697E-14	2.228E-14	1.344E-14	8.105E-15	4.827E-15	2.553E-15
-7.55044E-01	4.348E-14	2.610E-14	1.571E-14	9.412E-15	5.492E-15	2.850E-15
-6.17876E-01	3.633E-14	2.180E-14	1.305E-14	7.811E-15	4.656E-15	2.533E-15
-4.58017E-01	3.085E-14	1.833E-14	1.091E-14	6.503E-15	3.862E-15	2.171E-15
-2.81605E-01	3.386E-14	2.015E-14	1.201E-14	7.174E-15	4.273E-15	2.443E-15
-9.50125E-02	4.689E-14	2.817E-14	1.695E-14	1.021E-14	6.131E-15	3.212E-15
9.50125E-02	6.337E-14	3.825E-14	2.310E-14	1.397E-14	8.431E-15	5.046E-15
2.81605E-01	7.876E-14	4.740E-14	2.841E-14	1.711E-14	1.030E-14	6.070E-15
4.58017E-01	6.922E-14	4.065E-14	2.407E-14	1.426E-14	8.429E-15	4.889E-15
6.17876E-01	8.605E-14	4.571E-14	2.633E-14	1.523E-14	8.634E-15	5.038E-15
7.55044E-01	1.912E-13	1.127E-13	6.656E-14	3.947E-14	2.346E-14	1.389E-14
8.65631E-01	5.436E-13	3.241E-13	1.942E-13	1.168E-13	7.049E-14	4.255E-14
9.44575E-01	1.767E-12	1.056E-12	6.327E-13	3.799E-13	2.287E-13	1.379E-13
9.89401E-01	5.937E-12	3.630E-12	2.217E-12	1.352E-12	8.245E-13	5.026E-13
TOTAL	2.725E-12	1.639E-12	9.874E-13	5.956E-13	3.594E-13	2.153E-13



<sup>4</sup> PI R\*\*2 SILICON KERMA (GAMMAS)  
(CM\*\*2 ERGS/GRAM/STERADIAN/SOURCE NEUTRON)

## FISSION SOURCE

COSINE	RANGE (METERS)					RANGE (METERS)					RANGE (METERS)				
	1800.0	2100.0	2400.0	2700.0	3000.0	3300.0	3600.0	3900.0	4200.0	4500.0	4800.0	5100.0	5400.0	5700.0	6000.0
-1.00000E-00	5.807E-12	2.290E-12	9.278E-13	3.861E-13	1.646E-13	7.149E-14	3.150E-14	1.403E-15	6.382E-15	3.852E-15	2.399E-15	1.403E-15	8.301E-16	4.977E-16	2.976E-16
-9.89401E-01	6.117E-12	2.466E-12	1.021E-12	4.335E-13	1.882E-13	8.301E-14	3.708E-14	1.601E-15	7.652E-15	4.509E-15	2.825E-15	1.601E-15	9.225E-16	5.497E-16	3.223E-16
-9.44575E-01	7.039E-12	2.984E-12	1.307E-12	5.830E-13	2.629E-13	1.198E-13	5.497E-14	2.265E-15	1.176E-14	7.069E-15	4.225E-15	2.265E-15	1.291E-15	7.708E-16	4.644E-16
-8.65631E-01	8.117E-12	3.531E-12	1.564E-12	7.073E-13	3.254E-13	1.508E-13	7.016E-14	2.921E-15	1.532E-14	9.232E-15	5.497E-15	2.921E-15	1.508E-13	8.139E-14	4.977E-14
-7.55044E-01	8.863E-12	3.917E-12	1.631E-12	8.151E-13	3.766E-13	1.748E-13	8.139E-14	3.223E-15	1.764E-14	1.057E-14	6.176E-15	3.223E-15	1.508E-13	8.139E-14	4.977E-14
-6.17876E-01	8.831E-12	3.757E-12	1.631E-12	7.264E-13	3.292E-13	1.506E-13	6.928E-14	2.887E-15	1.488E-14	8.905E-15	5.304E-15	2.887E-15	1.506E-13	6.928E-14	4.977E-14
-4.58017E-01	8.790E-12	3.601E-12	1.524E-12	6.632E-13	2.944E-13	1.324E-13	6.014E-14	2.503E-15	1.264E-14	7.533E-15	4.472E-15	2.503E-15	1.324E-13	6.014E-14	4.977E-14
-2.81605E-01	9.585E-12	3.887E-12	1.655E-12	7.179E-13	3.186E-13	1.434E-13	6.519E-14	2.770E-15	1.873E-14	1.128E-14	6.757E-15	3.857E-15	1.434E-13	6.519E-14	4.977E-14
-9.50125E-02	1.138E-11	4.662E-12	2.016E-12	8.931E-13	4.042E-13	1.872E-13	8.645E-14	5.417E-15	2.498E-14	1.510E-14	9.104E-15	5.417E-15	1.872E-13	8.645E-14	4.977E-14
-9.50125E-02	1.442E-11	6.049E-12	2.615E-12	1.170E-12	5.346E-13	2.444E-13	1.138E-13	6.444E-15	3.615E-14	1.899E-14	1.098E-14	6.444E-15	2.444E-13	1.138E-13	4.977E-14
2.81605E-01	1.828E-11	7.575E-12	3.265E-12	1.449E-12	6.563E-13	3.013E-13	1.398E-13	7.270E-15	4.205E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
4.58017E-01	2.365E-11	9.340E-12	3.773E-12	1.568E-12	6.629E-13	2.862E-13	1.260E-13	8.645E-15	5.147E-14	2.057E-12	8.106E-13	4.644E-15	2.862E-13	1.260E-13	4.977E-14
6.17876E-01	3.456E-11	1.321E-11	5.147E-12	2.057E-12	8.106E-13	3.487E-13	1.470E-13	9.104E-15	5.147E-14	2.057E-12	8.106E-13	4.644E-15	3.487E-13	1.470E-13	4.977E-14
7.55044E-01	6.219E-11	2.478E-11	9.880E-12	4.025E-12	1.695E-12	7.386E-13	3.327E-13	1.098E-14	5.147E-14	2.057E-12	8.106E-13	4.644E-15	6.219E-11	2.478E-11	4.977E-14
8.65631E-01	1.317E-10	5.767E-11	2.490E-11	1.078E-11	4.717E-12	2.092E-12	9.362E-13	2.770E-15	6.726E-11	3.118E-11	1.435E-11	6.590E-12	1.317E-10	5.767E-11	4.977E-14
9.44575E-01	2.933E-10	1.427E-10	6.726E-11	3.118E-11	1.435E-11	6.590E-12	3.033E-12	2.068E-11	1.710E-10	8.607E-11	4.248E-11	2.068E-11	2.933E-10	1.427E-10	4.977E-14
9.89401E-01	6.116E-10	3.301E-10	1.710E-10	8.607E-11	4.248E-11	2.068E-11	9.976E-12	1.016E-11	1.043E-10	4.777E-11	2.198E-11	1.016E-11	6.116E-10	3.301E-10	4.977E-14
TOTAL	5.000E-10	2.284E-10	1.043E-10	4.777E-11	2.198E-11	1.016E-11	4.717E-12	2.236E-13	1.043E-10	4.777E-11	2.198E-11	1.016E-11	5.000E-10	2.284E-10	4.977E-14

COSINE	RANGE (METERS)					RANGE (METERS)					RANGE (METERS)				
	3800.0	4000.0	4200.0	4400.0	4600.0	4800.0	5000.0	5200.0	5400.0	5600.0	5800.0	6000.0	6200.0	6400.0	6600.0
-1.00000E-00	1.837E-14	1.072E-14	6.382E-15	3.852E-15	2.399E-15	1.403E-15	8.301E-16	4.977E-16	2.976E-16	1.764E-14	1.057E-14	6.176E-15	3.223E-15	1.508E-13	6.928E-14
-9.89401E-01	2.180E-14	1.287E-14	7.652E-15	4.509E-15	2.825E-15	1.601E-15	9.225E-16	5.497E-16	3.223E-16	1.764E-14	1.057E-14	6.176E-15	3.223E-15	1.508E-13	6.928E-14
-9.44575E-01	3.281E-14	1.962E-14	1.176E-14	7.069E-15	4.225E-15	2.265E-15	1.291E-15	7.708E-16	4.644E-16	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
-8.65631E-01	4.220E-14	2.542E-14	1.532E-14	9.232E-15	5.497E-15	2.921E-15	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
-7.55044E-01	4.886E-14	2.932E-14	1.764E-14	1.057E-14	6.176E-15	3.223E-15	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
-6.17876E-01	4.144E-14	2.485E-14	1.488E-14	8.905E-15	5.304E-15	2.887E-15	1.506E-13	6.928E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
-4.58017E-01	3.509E-14	2.122E-14	1.264E-14	7.533E-15	4.472E-15	2.503E-15	1.324E-13	6.014E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
-2.81605E-01	3.863E-14	2.300E-14	1.371E-14	8.189E-15	4.874E-15	2.770E-15	1.434E-13	6.519E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
-9.50125E-02	5.188E-14	3.116E-14	1.873E-14	1.128E-14	6.757E-15	3.857E-15	1.434E-13	6.519E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
2.81605E-01	6.859E-14	4.138E-14	2.498E-14	1.510E-14	9.104E-15	5.417E-15	1.872E-13	8.645E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
4.58017E-01	8.405E-14	5.058E-14	3.032E-14	1.826E-14	1.098E-14	6.444E-15	2.444E-13	1.138E-13	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
6.17876E-01	7.360E-14	4.325E-14	2.561E-14	1.517E-14	8.967E-15	5.172E-15	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
7.55044E-01	8.344E-14	4.766E-14	2.745E-14	1.588E-14	9.204E-15	5.216E-15	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
8.65631E-01	1.955E-13	1.152E-13	6.803E-14	4.032E-14	2.395E-14	1.414E-14	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
9.44575E-01	5.545E-13	3.306E-13	1.981E-13	1.192E-13	7.188E-14	4.335E-14	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
9.89401E-01	1.610E-12	1.082E-12	6.482E-13	3.893E-13	2.343E-13	1.413E-13	1.508E-13	8.139E-14	4.977E-14	2.533E-14	1.474E-14	7.270E-15	3.013E-13	1.398E-13	4.977E-14
TOTAL	2.634E-12	1.705E-12	1.027E-12	6.195E-13	3.736E-13	2.236E-13	1.016E-11	4.717E-12	2.236E-13	1.016E-11	4.717E-12	2.236E-13	2.634E-12	1.705E-12	4.977E-14